THE CHEMIST AND DRUGGIST

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Index and Buyers' Guide, pp. 5, 6, 7, 8, and 9.

May, Roberts' Traveller.

No. 4023 CITY. JULY 11, 1914 LONDON & DUBLIN.

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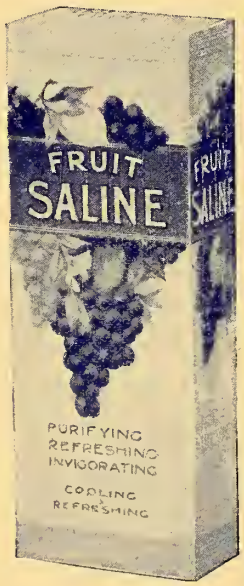

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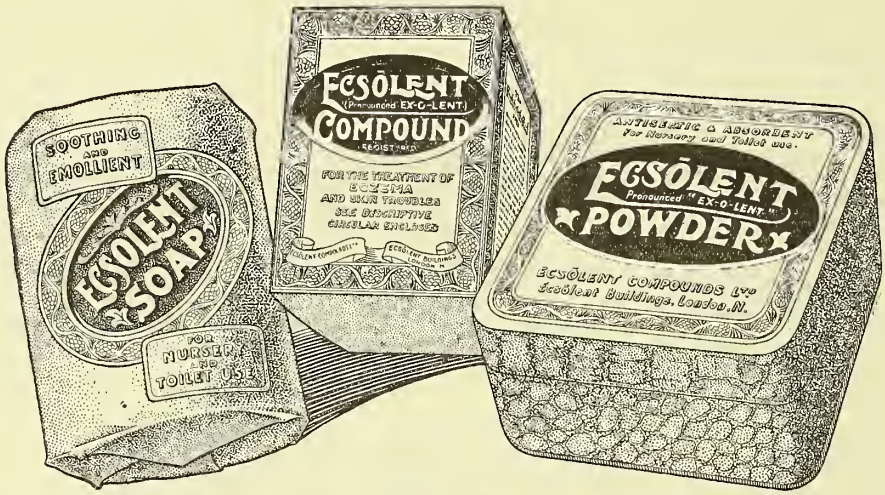

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Lescol Perfumery Co.
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Nitsche & Gunther Opt. Co.,Ltd.

SPERMACETI
Price's Patent Candle Co., Ltd.

SPHYGMOMETERS
Hicks, James J.

SPICES
Goodall, Backhouse & Co.

SPIRIT OF WINE
Burrough, J., Ltd.
Calder, James, & Co., Ltd.
Preston's Liverpool Distillery Co., Ltd.

SPONGES
Internl. Sponge Importers, Ltd.

SPRAYS
Benton & Stone, Ltd.
Burge, Warren & Ridgley, Ltd.
Christy, Thos., & Co.
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
Parke, Davis & Co.
Sangers
Toogood, Wm., Ltd.

SPRINKLER CORKS
Betts & Co., Ltd.

SPRUCE BEER
Hobson, Joseph, & Son

STARCH
Corn Products Co., Ltd.
Mumford, G. S., & Sons

STILLS
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Forshaw, E., & Son, Ltd.
Stokes, F. J., Machine Co.

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SURGICAL APPLIANCES AND DRESSINGS
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Burgoyne, Burbidges & Co.
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Davis, John Morgan, & Sons
Galen Manfg. Co., Ltd.
Gimber, W., & Son
Haynes, G., & Co.
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Macfarlan, J. F., & Co.
Mason Bros. & Chapman
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Queloh, H. C., & Co.
Reynolds & Branson, Ltd.
Robinson & Sons, Ltd.
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Van Horn & Sawtell
Vernon & Co., Ltd.
Warne, W., & Co., Ltd.
Wood, Vincent
Woolley, J., Sons & Co., Ltd.

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SYPHONS
Barnett & Foster
Camwal, Ltd.
Idris & Co., Ltd.
Pure Aeration Supply, Ltd.
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SYRINGES
Bush, H. W., & Co., Ltd.

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Bennett, Sons & Shears, Ltd.
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Blyton, Astley & Co.
British Drug Houses, Ltd., The
Brook, Parker & Co., Ltd.
Burgoyne, Burbidges & Co.
Cartwright, W. B., Ltd.
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Duncan, Flockhart & Co.
Evans Sons Lescher & Webb, Ltd
Guest, Thos., & Co.
Howards & Sons, Ltd.
Jackson, Ernest, & Co.
Johnson & Sons (Mfg. Chts.).
Lloyd, H., & Co., Ltd.
Parke, Davis & Co.
Standard Tablet & Pill Co.,Ltd.
Thompson & Capper, Ltd.
Wand Manfg. Co.
Wigglesworth & Co.

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Lloyd, A. S. (Hovenden)
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Prichard & Constance, Ltd.
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Burgoyne, Burbidges & Co.
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Townsend, J., & Sons

TOOTH PICKS
Odol Chemical Works

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Ford Shapland & Co.
Raworth, John E.

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Haywood, J. H., Ltd.
Maw, S., Son & Sons
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Schutze, F., & Co., Ltd.
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Berdoe & Fish
Brett & Co.
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Orridge & Co.
Tomlinson, T., & Son

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Cupal, Ltd.
Danysz Virus, Ltd.
Evans Sons Lescher & Webb, Ltd
Farmer, F., & Co.
Harley, Thomas
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Hawker, Arthur E.
London Hygienic Chemical Co.
Milner's Chemical Co.
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Maw, S., Son & Sons

VINEGAR
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Barclay & Sons, Ltd.
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The Large Advertising Campaign

on behalf of Biomalz has created a big demand for this excellent Tonic Food. And it is a demand that will last, for Biomalz is not a medicine that is taken in occasional doses but is a *Tonic Food for daily and constant use.*

Chemists should keep a good supply of Biomalz on hand to meet all requirements.

Biomalz is made from the finest Barley Malt and a nutritive salt.

Obtainable through all Wholesale Houses.

TRADE DISCOUNT, 30 %

On P.A.T.A. List.

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Regent House, Kingsway, London, W.C. (1)

"One cannot help but marvel at the persistence of the food and drugs inspectors to justify their existence by continually working on the traps set for the unwary . . ."

The Chemist and Druggist.

So far as Borax is concerned, all possible trouble may be avoided by selling for medicinal purposes that grade only which is specially prepared to comply with the requirements of the B.P. The Commercial Quality, though 99.50% pure, may possibly fail to meet the tests. It is advisable always to specify

Extra Refined Guaranteed B.P. Quality

"Twenty Mule Team" Brand.

It is sold in the form of stainless crystals and fine white powder, and although the cost of refining is considerably greater, the price is only £1 per ton higher than for Commercial Quality. Order (through your wholesale house) exactly as above.

Sample is obtainable on request.

Borax Consolidated, Limited, 16 Eastcheap, London, E.C.

Johann Maria Farina's Julichs Platz No. 4

GENUINE

EAU DE COLOGNE

is known throughout the world by the label on the bottle as shown herewith. Attention is drawn to the No. 4, which is the number of Johann Maria Farina's Factory Place, viz. Jülichs Platz No 4, in the city of Cologne on the Rhine.

By Appointment to H.M. King George V.

Buenos Aires, 1911, GRAND PRIX.

Turin, 1911, GRAND PRIX.

HIGHEST AWARDS.

Wholesale Agents:
FICKUS, COURTENAY & CO. Ltd.
36 Sackville St., Piccadilly
LONDON, W.

THE PERFECT PLATE POLISH

S. MAW, SON & SONS
7 TO 12, ALDERSGATE ST.
LONDON, E.C.

Maw's Page.

No. 143 JULY 11, 1914

ARTISTIC DELF POMADE JARS

'SILIQUA'—QUITE NEW

OUR LATEST PLATE POLISH

"Apply with a very soft rag and polish with a chamois." These are the directions, and *only* directions, printed on the bottles containing our "Siliqua" Liquid Polish for silver plate.

The "Siliqua" way is the simple way. Just a few rubs and the dullest plate is transformed into permanent radiance. Results are quick and pleasing. "Siliqua" Plate Polish is put up in novel green glass containers of 6 oz. capacity, as illustrated. The labels and showcards are printed in three colours, a pleasing combination of wistaria, orange and black. The price is 8/- per dozen, and the containers sell at 1/- each, *protected retail price.* "Siliqua" is exclusive to Pharmacists.

NOTES & NEWS

QUITE a line for the Holidays is our "Parex" Safety Razor Blade. It is British made from the finest steel by the most modern process. Put up in packets of twelve, 2/- per dozen blades.

...

A HOLIDAY without a Vacuum Flask is unthinkable to a large majority of people. Why not write for our Price List? Our "Effective" Flasks well uphold their name.

...

WE can already record big sales for our "Parex" Talcum Powders. Price—Violet or White Rose—is 6/6 per dozen. Protected retail price is 10½d. per tin. Details of Special Bonus Offer free.

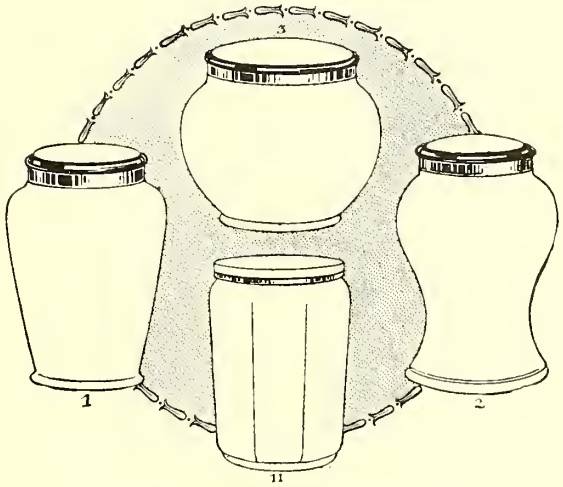
TIRED FEET REMEDIES

Customers afflicted with flat feet and consequent weariness of walking will find Maw's "Atlas" Foot Supports a great relief. They are made of strong nickel-plated metal with spring attached, shaped to fit into the boot or shoe. The upper parts are covered with leather. When ordering, the size of the footwear should be stated. Ladies' "Atlas" Supports, 3/3 per pair. Gents', 3/9 per pair. Each in neat card box with attractive label.

THESE LINES SELL NOW

Maw's Toe Easers are a splendid remedy for corns, especially those growing between toes. One of the Easers inserted so as to prevent the corn from being rubbed will afford great comfort. Made of india-rubber, supplied in box with illustrated directions. Price 6/6 per dozen. Also Bunion Easers (2 sizes) 7/6 per dozen. Demonstration card supplied free with orders.

A display of the above remedies will prove particularly profitable in tourist centres.



A Charming Series of Delf Pomade Jars

We illustrate these in actual colours on pp. 396-7 of our Catalogue, and beautiful designs they are! No. 1, Pale Blue body, with metal cap, and blue celluloid disc to match, 1 oz. gross, 34/6. No. 2, Pink body, with metal cap, and pink celluloid disc to match, 1 oz. gross, 34/6. No. 3, Cream body, with metal cap, and cream celluloid disc to match, 1½ oz. gross, 38/-. No. 11, assorted coloured bodies, with metal and celluloid caps to match, 2 oz. gross, 27/-

The number of dentifrices is myriad, their names are legion.

But—

in principle and in efficiency there is but one,

CALOX

THE OXYGEN TOOTH POWDER.

Its principle is the evolution of oxygen.

Its efficiency as a cleanser of the teeth is due to the oxygen which it generates when used.

Not only antiseptic, but deodorant, two desirable properties of a tooth powder. Its oxidizing and deodorizing power was obvious in our experiments.—THE LANCET, *London, Eng.*

Possesses not only strong antiseptic, but deodorizing and oxidizing properties, as the result of which the teeth, after a few days' use of CALOX acquire a pearly whiteness.—THE CHEMIST AND DRUGGIST, *London.*

CALOX is entirely different from other dentifrices. Its introduction marks a decided advance in the scientific development of a dentifrice, a fact which the dental profession the world over has been quick to recognise. Chemists should interest themselves in Calox because only a chemist can explain the peculiar virtues and value of an oxygen-producing dentifrice.

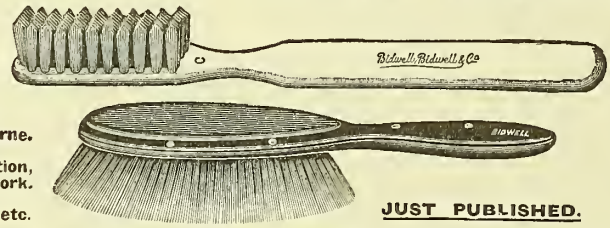
Price to the trade, 9/6 per dozen on the P.A.T.A plan.

McKESSON & ROBBINS, New York, U.S.A. *Manufacturers.*

BRITISH DEPOT— G. B. KENT & SONS, Ltd., 75 Farringdon Road, London, E.C.

Established 1839.

BIDWELL'S TOILET BRUSHES



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GOLD MEDAL
awarded
International Exhibition.

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Works:
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WILLIAM LASSON'S

Hair Elixir

has a 30 years' reputation as an

Unique Hair Producer.

All wholesale houses supply it.

Chemists & Druggists
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COLOURED ART PRINT,
a great help in pushing its sale.
Post free. Write to-day to

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SUPPORT HOME INDUSTRIES.

BUY KENT'S BRUSHES.

Winter Issue, 1914, pp. 76, 77.
Diary, 1914, pp. 120, 121.

IMPORTANT ANNOUNCEMENT
TO THE TRADE.

A FEW months ago we offered to the trade free foundation stocks of all our toilet preparations, and the alacrity shown by hundreds of Retailers in taking advantage of this offer induces us to make a further proposition which we hope will be received in a like manner.

Two attractive leaflets have been prepared, one consisting of four pages covering the whole of the Dearborn specialities, and the other a single fly-leaf devoted to our new hair-curling fluid, Silmerine. A parcel of these leaflets with your own name and address printed thereon will be sent to any Retail Chemist in the United Kingdom applying for same. In the unlikely event of your not carrying a stock of the Dearborn Company's specialities, you may order a selection from your wholesaler, under our guarantee to take back stock at any time, and refund cash in full. Should you prefer it, however, you may obtain a foundation stock direct from us, on the understanding that you replace sales through your wholesaler. We shall not ask for payment of the original consignment until such time as we wish to have the goods returned.

Toilet Specialties

		Price per doz. to Retailer.	Selling Price P.A.T.A.
PILENTA SOAP	a complexion soap	10/–	1/–
PROLACTUM	for the lips	10/–	1/–
PARSIDIUM JELLY	for wrinkles	10/–	1/–
ALLACITE OF ORANGE BLOSSOM	a dressing cream	22/6	2/6
BORANIUM	a hair tonic	22/6	2/6
CLEMINITE	for a face lotion	22/6	2/6
COLLIANDUM	for a face tint	22/6	2/6
TEKKO PASTE	camphor cream	22/6	2/6
ONALITE	a foot powder	22/6	2/6
PERGOL	a deodorant	22/6	2/6
STALLAX	for a shampoo	22/6	2/6
JETTALINE	for clearing the skin	31/6	3/6
PHEMINOL	a depilatory	36/–	4/–
MENNALINE	for the eyelashes	36/–	4/–
MERCOLIZED WAX	a face cream	31/6	3/6
SILMERINE	hair curling fluid	22/6	2/6

Stocked by all Wholesale Houses

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DEARBORN LIMITED, 32-34 THEOBALD'S ROAD, W.C.

Toogood's Floral Crystal Bath Salts

2429.

No. 2429.

Square Bottles, fitted Boxwood-top Corks, Artistic Labels, finished either Brown or Green Ribbon.

Assorted Odours—

Lavender, Cologne, Violet, Verbena, Oriental, Rose or Pine.

9	18	36 ounces.
10/6	**18/-**	**34/-** dozen.

SHOWCARDS SUPPLIED.

2430.

No. 2430.

Round Bottles, fitted Boxwood-top Corks, Artistic Labels, finished either Brown or Green Ribbon.

Assorted Odours—

Lavender, Cologne, Violet, Verbena, Oriental, Rose or Pine.

8	16	32	40 ounces.
7/6	**13/-**	**26/-**	**36/-** dozen.

60	80	160 ounces.
48/-	**62/-**	**120/-** dozen.

Customer's name, etc., printed on labels for orders of two dozen assorted of either style.

SHOWCARDS SUPPLIED.

2518.

No. 2518.

Water Softener.

In Green or Brown Wood Veneer Boxes.

Assorted Odours.

½ lb., **4/6.** 1 lb., **7/6** dozen.

Customer's name on two dozen assorted.

MANUFACTURED ONLY BY

William Toogood, Ltd.

77 Southwark Street, London, S.E.

"HOW HOT IT IS!"

These two little Smelling Salts are great sellers.

No. 25. THE "DOT, **2/2** per Doz.

No. 26. TAPER, **3/9** per Doz.

Perfumed Lavender

Prices subject to 5 % as usual.

F. NEWBERY & SONS, Ltd.

27 & 28 Charterhouse Square, LONDON, E.C.

TIDMAN'S SEA SALT.

ON P.A.T.A. LIST. INCREASED PROFITS TO ALL WHO KEEP IT IN STOCK.

Orders of Twenty Shillings value and upwards Carriage Paid—Cases Free, less 2½ % Discount for Cash.

	Advertised Price. Per Box.		Minimum Retail Price. Per Box.		Minimum Wholesale Price. Per Gross.
1d. Packets	**1/-**	... 12 in box	**11d.**	...	**8/6**
2d. ,,	**2/-**	... ,,	**1/10**	...	**16/9**
1d. linen Bags	**1/-**	... ,,	**11d.**	...	**8/6**
2d. ,, ,,	**1/-**	... 6 in box	**11d.**	...	**16/9**
Boxes, about 1½ lb.	**4d.**	...	**3½d.**	...	**2/10** pr. doz.
,, ,, 3½ ,,	**8d.**	...	**7d.**	...	**5/8** ,,
,, ,, 7 ,,	**1/2**	...	**1/-**	...	**10/-** ,,
,, ,, 14 ,,	**2/-**	...	**1/10**	...	**18/3** ,,

SINGLE BAGS of following 3 sizes sent CARRIAGE PAID to any place in the United Kingdom, so that there is no Stock to hold.

	Advertised Price.		Minimum Retail Price.		Minimum Wholesale Price.
28-lb. Bags (or Boxes)	**3/-** each	...	**3/-**	...	**2/6** each
½-cwt. Bags	**5/6** ,,	...	**5/6**	...	**4/7** ,,
1-cwt. Bags	**10/-** ,,	...	**10/-**	...	**8/4** ,,

The following are also sent, carriage paid, cases free, to any place in the United Kingdom, for net cash: 4—7 lbs. Boxes, **3/6** the lot; 6—7 lbs. Boxes and upwards at **10/-** per dozen (list price). Orders for assorted sizes to the value of **7/6** and upwards.

TIDMAN'S SEA SOAP, beautifully perfumed.

	Advertised Price.		Minimum Retail Price.		Minimum Wholesale Price.	
Box of 3 large Tabs.	**1/-** each	...	**10½d.**	...	**7/6**	per doz. boxes.
,, 6 small Tabs.	**6d.** ,,	...	**5d.**	...	**3/9** ,,	,,
Bars about ½-lb.	**5d.** ,,	...	**4d.**	...	**3/-**	per doz. bars.
,, ,, 1-lb.	**10d.** ,,	...	**8d.**	...	**6/-** ,,	,,

Accounts Monthly Net due 10th of following month. Terms for Seidlitz Powders, Pinnacle Soap Stands, Toilet Soaps, &c., sent on application.

TIDMAN & SON, Ltd., Wapping, London, E.

An Opportunity

now presents itself for Chemists to sell the popular

GANESH PREPARATIONS

OF

Mrs. E. ADAIR,

the well-known Specialist in Beauty Culture, of **92 NEW BOND STREET, LONDON, W.,** Paris and New York.

These preparations are patronised by Royalty and the leading society ladies of England and abroad and have the recommendation of the Medical Faculty.

The Ganesh Preparations should prove a remunerative line to Chemists and Drug Stores, as many ladies will avail themselves of the opportunity of purchasing locally.

Extensive publicity is given each week in the leading ladies' journals.

GANESH EASTERN OIL

is a wonderful success for removing lines, hollows, &c., making the skin firm, fresh, and healthy. Restores the youthful complexion. Sizes, 5/6 to 30/6.

GANESH LILY LOTION

is a leading skin doctor's prescription, made in different shades to suit all skins; is most refreshing and beautifying. Preventative against Mosquito and Midge bites. Invaluable for motoring and driving. 5/6 to 10/6.

GANESH DIABLE SKIN TONIC.

An infallible remedy for toning, strengthening, and whitening the skin. Prevents cold winds or sunburn from harming the complexion Sizes, 5/6 to 21/6.

GANESH PATENT CHIN STRAPS

to be worn during sleep. Restores youthful contours, removes double chins. Made in specially prepared and ventilated elastic, and are soft, light, and comfortable. 21/6; 25/6.

For Catalogue of other Preparations, together with advantageous trade terms, apply Mrs. Adair, 92 New Bond Street, London, W. 'Phone—Ger. 3782.

LATEST FINE SELLING NOVELTY

HAYDEN COFFIN

TOOTH POWDER

COMPRESSED, PTD.

(From a Prescription of his father, Dr. C. R. COFFIN),

NOT A SOAP. NOT A PASTE. UNIQUE ARTISTIC PUT-UP.

Now on Sale at

BARKER'S, HARRODS', SELFRIDGE'S, WHITELEY'S, ARMY & NAVY STORES, and leading WEST-END CHEMISTS'.

ALSO THE

HAYDEN COFFIN

HYGIENIC TOOTH BRUSH (Rgd.)

Retail Prices:

POWDER, 2s. 6d. BRUSH, 1s. 1d.

Trade Supplied by

HAYDEN COFFIN T. P.

39 VICTORIA STREET, LONDON, S.W.

BEETHAM'S

"LAROLA"

(Registered)

Is the Skin Tonic for 1914.

It is effective.
It is attractive.
It is price-protected.
It is well-advertised.
It sells readily.
It bears a good profit.

HAVE YOU OUR SHOWCARD?

THIS IS WHAT THE "C. & D." SAYS OF IT:

BEETHAM'S NEW SHOWCARD.—One of the prettiest lithographic productions which have come to us lately is the Larola beauty here depicted. The card measures 24 in. by 18 in., and is all roses, even the word "Larola" being formed from prickly rose-stems. The fair rose-gatherer has rosy cheeks, and she and the setting make so bright a picture that no pharmacy will be complete without it. Copies can be obtained from Messrs. M. Beetham & Son, Cheltenham, the originators of Glycerine-and-Cucumber and Larola.

This handsome Showcard, in 14 colours (size 24 by 17) can be had by any chemist who will give it a good place in his pharmacy.

M. BEETHAM & SON, Cheltenham.

THE "D & O" BRAND MEANS "STANDARD OF QUALITY"

ESSENTIAL OILS, SOUTH AMERICAN BALSAMS & DRUGS.

Write for Samples and Prices of our PEPPERMINT OILS.

DODGE & OLCOTT CO., 20 MARK LANE, LONDON, E.C.

OKELL'S ORIGINAL MONA BOUQUET.

(First introduced by the late JOSEPH O'KELL).

Registered Trade Mark, "DOUGLAS PIER."

The most popular and best-selling perfume in the market.

Retail Prices ... 1/-, 1/9, 3/6, 6/-, 7/6, 10/6, per Bottle,

ALSO 3d. SAMPLE BOTTLES.

Shippers and Wholesale Buyers supplied on the best terms by THOMAS WEST & SON, 1187 Chester Road, Stretford. MANCHESTER.

'SEMREH'

THE LAST WORD in Bottle Cappings. Air-tight, spirit-proof, easy to put on, self-fitting: the bottle's contents hermetically sealed.

Use 'SEMREH' HALF-CAPS for PERFUMERY

Full particulars on request.

The VISCOSE DEVELOPMENT CO., Ltd., Pembroke Road, BROMLEY, KENT.

SELF-FIXING BOTTLE CAPS

THE LESCOL PERFUMERY CO.

beg to announce that in addition to their well-known popular lines they now have an extensive range of

NEW LINES.

Before placing orders, BUYERS will be well advised to send a card stating requirements, when a price list with coloured illustrations of those suitable to their market will be sent immediately.

Orders dispatched in rotation; to ensure early delivery write at earliest opportunity to:—

THE LESCOL PERFUMERY CO.,
LOMOND GROVE,
CAMBERWELL GREEN,
LONDON, S.E.

Telephone: 810 Hop.

Telegrams: "VANILLIN-CAMBER, LONDON."

"PROVIDOL" SOAP

WINDOW DISPLAY COMPETITION

CASH PRIZES **104** CASH PRIZES

First Prize	- - £50	Fourth Prize	- - £5
Second ,,	- - £25	AND One Hundred Consolation Prizes	£1 1 0
Third ,,	- - £10		

COST PRICE. FOR ORDERS OF ONE GROSS. SELLING PRICE.

	£	s.	d.
9 doz. Tabs. PROVIDOL SOAP at 4/- per doz. ...	1	16	0
3 ,, ,, ,, 6/8 ,, ...	1	0	0
	2	16	0
Discount 10 per cent.		5	8
Net cost	£2	10	4

	£	s.	d.
9 doz. Tabs. at 6d. each...	2	14	0
3 ,, ,, 10d. ,, ...	1	10	0
BONUS FOR WINDOW DISPLAY: 2 doz. Tabs. at 6d. each ...		12	0
½ ,, Cream, 6d. ,, ...		3	0
½ ,, ,, 1/- ,, ...		6	0
	£5	5	0

PROFIT - 52 per cent.

FOR ORDERS OF THREE GROSS.

	£	s.	d.
2½ gross Tabs. PROVIDOL SOAP at 4/- per doz.	6	0	0
½ ,, ,, ,, 6/8 ,,	2	0	0
	8	0	0
Discount 15 per cent.		16	0
	7	4	0
,, 5 per cent.		7	3
Net cost	£6	16	9

	£	s.	d.
2½ gross Tabs. at 6d. each	9	0	0
½ ,, ,, 10d. ,, ...	3	0	0
BONUS FOR WINDOW DISPLAY: 4 doz. Tabs. at 6d. each ...	1	4	0
3 ,, ,, 10d. ,, ...	1	10	0
3 ,, Cream, 6d. ,, ...		18	0
2½ ,, ,, 1/- ,, ...	1	10	0
	£17	2	0

PROFIT - 60 per cent.

FOR ORDERS OF FIVE GROSS.

	£	s.	d.
4 gross Tabs. PROVIDOL SOAP at 4/- per doz.	9	12	0
1 ,, ,, ,, 6/8 ,,	4	0	0
	13	12	0
Discount 15 per cent.	2	0	10
	11	11	2
,, 5 per cent.		11	6
Net cost ...	£10	19	8

	£	s.	d.
4 gross Tabs. at 6d. each	14	8	0
1 ,, ,, 10d. ,, ...	6	0	0
	20	8	0
BONUS FOR WINDOW DISPLAY: ½ gross Tabs. at 6d. each ...	1	16	0
½ ,, ,, 10d. ,, ...	3	0	0
½ ,, Cream, 6d. ,, ...	1	16	0
½ ,, ,, 1/- ,, ...	3	12	0
	£30	12	0

PROFIT - 65 per cent.

Have you had particulars of our great Advertising Scheme to the Public? If not, write to—

Sole British Agent and for Export Trade—

W. BONSER HAYWARD, 17 LAWRENCE LANE, E.C.

Telegrams: "BONSERAYAR, CENT, LONDON." *Telephone: BANK 8507*

THE NATURAL MINERAL WATER

VICHY-CÉLESTINS

STATE SPRING.

DISORDERS OF THE LIVER; GOUT;

DIABETES; RHEUMATISM; GRAVEL, &c.

VICHY-ÉTAT PASTILLES.

Two or three Pastilles after each meal facilitates digestion.

CAUTION: Each bottle from the STATE SPRINGS bears a neck label with the words "VICHY-ETAT" and the name of the SOLE AGENTS:

INGRAM & ROYLE, Limited,

Bangor Wharf, 45 Belvedere Road, London, S.E.
And at LIVERPOOL and BRISTOL.

A. MILLAR & CO., LTD., DUBLIN

PURE ORANGE WINE

VINUM AURANTII, B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only

London Agent: JAMES STIRTON, 43 GREAT TOWER STREET, E.C.

SODA-WATER MACHINERY.

By the use of our latest Back Pressure Filling Machines only half the usual quantity of Gas is used for the manufacture of the Highest quality Soda-water, either in Syphons or Bottles.

THE "COMPACT" MACHINES

are specially designed for

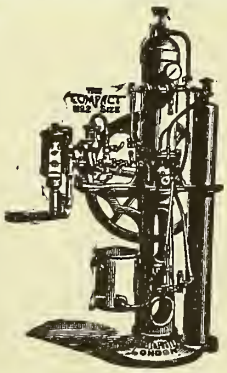
CHEMISTS, GROCERS, RESTAURATEURS,

and everyone to whom space is an object, and can be used for filling Syphons, Codd's Bottles, or Cork Bottles.

OCCUPY LITTLE SPACE!
ARE READY FOR USE IMMEDIATELY!
REQUIRE NO FIXING!

Produce Soda Water, Lemonade, &c., of the highest class and greatest purity.

Write for Catalogue.



A COMPLETE APPARATUS—CAPABLE OF PRODUCING OVER 300 DOZEN LARGE BOTTLES OF AERATED WATER PER DAY—FROM £20.

Bottles, Boxes, Essences, and all Requisites for the Trade at Lowest Prices.

BARNETT & FOSTER, Niagara Works, 26T Eagle Wharf Road, N.

Proprietors of Galloway Bros., Bolton.

This is a photograph of the most successful

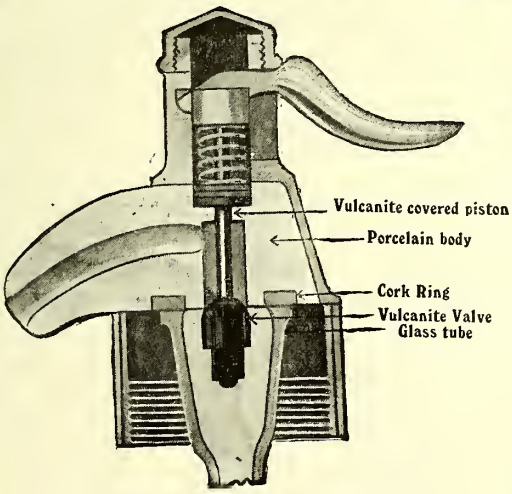
"PRANA" SPARKLET WINDOW SHOW

ever arranged.

Background and Floor.—Dark curtains or drapery of velvet or any suitable material.
Foreground.—3 pedestals (or cases covered with paper or drapery) each carrying one Sparklet Syphon, one box (dummy) of Bulbs, a glass jug, and a tumbler.
Cards.—"This is all you require to make at home pure fresh Soda-water." Syphon (only one required) 4/-; Bulbs, 1/6 per box of 12 (first box, 2/-).

Try the effect of this—the results will astonish you.

AERATORS, Ltd., PRANA SPARKLET WORKS, UPPER EDMONTON, LONDON, N.



TESTIMONY OF USERS:

"The most Perfect Hygienic Syphon on the Market."

It you contemplate filling your own Syphons apply here for up-to-date Electrical Plant.

SHARMAN'S PATENT SYPHON CO. LTD.
171 LOWER CLAPTON ROAD, N.E.

Gold Medal awarded, Odessa Exhibition, 1910

SYPHON SATISFACTION

secured by using Sharman's (patent) Hygienic Syphon.

Chemists are now becoming alert to the disadvantages of the ordinary Syphon. The usual heads are made of Tin, Lead, Antimony or Aluminium Alloys which dissolve in CO_2; therefore the water cannot be pure and its use may be attended with most serious results.

The head of Sharman's Hygienic Syphon is of solid porcelain and the valve and piston are covered with vulcanite.

BEWARE of infringement of Sharman's Patent Syphons. Makers and users are equally liable and will be promptly proceeded against.

THE IDEAL SUMMER DRINK:

"An Ideal-and-Soda!"

Ice Cream Soda Fountains are expensive. Save the expense, but get the Trade!

You supply the Soda, add our

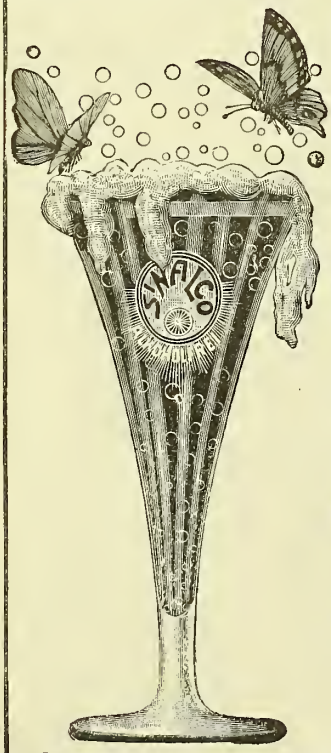
IDEAL MILK

in the proportion of 3 or 4 parts of Soda to 1 of Milk, and any desired flavouring.

A PAYING SIDE-LINE TO ATTRACT CUSTOMERS!

SAMPLES AND PRICES OF:

NESTLE'S, Eastcheap, LONDON.



Improve Your Sales by using

BILZ-SINALCO ESSENCE

Sold in Concentrated Form or as Syrup.

Protected by Patents.

Celebrated in every Civilised Country.

Licences granted for Districts.

Makes Nature's own Cooling and Refreshing Drink

"PROSET"

Apply—

SINALCO CO., DETMOLD (Germany)

THEIR PRICE

is the only thing that is

"CHEAP"

about the SUPERTESTED

"ROC" VACUUM FLASKS

¶ One quality only—the BEST—in different casings to suit all requirements and purses.

¶ Every grade has the same supertested vacuum bottle as is found in the most expensive makes—and many unique features which increase their strength and diminish risk of breakage.

READ & CAMPBELL, LTD.,
Craig's Court, Charing Cross, LONDON, S.W.

THE CONSTITUTION OF 'OVALTINE'

"Ovaltine" is a concentration of Malt Extract, Milk and Eggs. Analysis shows it to contain the following proportion of proximate principles:

Carbohydrates 67·9%	Maltose, Lactose and small proportion of Dextrin.
Fats 8·01%	Milk Fat in its natural emulsion, Egg Fats in fine subdivision.
Proteins (N x 6·3) 14·2%	Casein, Vitellin and Egg Albumin.
Organic Phosphorus as P_2O_5 1·18%	Ovo Lecithin and Phosphorus Compounds of Milk.

"Ovaltine" contains no starch or cereal fibrous matter. Low temperatures are rigidly maintained during all stages of its manufacture so that the protein elements remain diffusible and unchanged, and activity of the phosphatides and the amylolytic malt enzymes are retained.

These considerations show "Ovaltine" to be well in accordance with the latest teachings, and to be a dietetic refinement not approached by the usual manipulation of unprepared foods.

Both extended clinical trial and physiological tests have shown "Ovaltine" to be readily tolerated and absorbed, and a valuable agent in building up patients, and in increasing opsonic and recuperative powers.

Ovaltine is sold in tins at 1/-, 1/9 and 3/- per tin.

A. WANDER Ltd., Leonard Street, London, E.C.; and King's Langley, Herts.

M 47A.

TRADE MARK
OVALTINE
TONIC FOOD BEVERAGE

WARNING TO CHEMISTS.

Do not risk your capital by stocking your shop with articles which are not well advertised, and do not risk your reputation by recommending articles of which you have no proof as to their merits.

Dr. Ridge's Patent Cooked Food has a 50 years' record, and is to-day recognised as one of the safest, purest and most reliable foods for Infants, Invalids and Aged Persons.

Chemists may recommend Dr. Ridge's Patent Cooked Food with the utmost confidence, and none should ever be without a supply; thousands of pounds are spent annually on various forms of attractive advertising with the result that the Public are continually asking for Dr. Ridge's Food.

MAY WE SEND YOU A FREE SUPPLY

of Counter Wrappers and Showcards? Remember, Dr. Ridge's Patent Cooked Food is on the P.A.T.A. List and shows a profit of 20% to all retailers who handle it. All the leading wholesale druggists can supply you with Dr. Ridge's Patent Cooked Food in **2d.** packets and in tins at **6d., 1/-, 2/-, 4/-,** & **8/-.**

Chemists abroad should be careful to order the Dr. Ridge's Patent Cooked Food manufactured in England, and beware of substitutes.

Write to us now for advertising matter, a postcard will do, and let your customers know that you are able to supply their requirements.

Address:—**Dr. Ridge's Royal Food Mills, Dept. CD., London, N., Eng.**

DR. RIDGE'S PATENT COOKED FOOD

Lofthouse & Saltmer, Ltd.

Wholesale and Export Drug Merchants, Manufacturing Chemists

HULL

Invite the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

	Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins	6d.	3 6
* " " " " "	1/-	7/-
* " " " " bottles in cartons	1/6	10/6

** Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.*

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema 1/- 8/-

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

SPECIAL TERMS ARE OFFERED FOR WHOLE OR PART WINDOW DISPLAYS.

VEROX

ALL BEEF. ALL BRITISH

Fluid Beef is the line that sells. More cups to the bottle, better quality and low minimum selling prices are a few points that, backed by good advertising, create the demand.

25% Profit

One quarter of the selling price is yours. Send to-day for free sample, price list, and special advertising terms to—

TOOTH'S Liebig (Est. 1865),
23 LEMAN STREET, LONDON, E.

PURE EGG LECITHIN

LECITHIN EX OVO

LECITHIN-ALBUMEN POWDER

For the manufacture of Tablets, Chemical Foods, Nerve Tonics, etc.

LECITHIN FOOD PREPARATIONS

Prepared with 2½%, 5%, or 10% of PURE Lecithin in bulk, or in boxes or cartons.

LECITHIN TABLETS, DRAGEES, PILLS or CHOCOLATE.

Prepared by Chemical Works "VICTORIA," Berlin, S.W.

Sole Agent for U.K.:

HUGO LORENZ, 7 & 8 Idol Lane, London, E.C.

Write for Pamphlets. Tel. Nos.: Avenue 5945; Central 12641.

HORLICK'S MALTED MILK Lunch Tablets

MALTED BARLEY, WHEAT & MILK in TABLET Form.

In Glass Pocket Flasks.

Costs the Trade 9/- for Single Dozens.

ESPECIALLY CONVENIENT FOR TRAVELLERS
:: SPORTSMEN, ATHLETES AND CYCLISTS. ::

Write for particulars to—

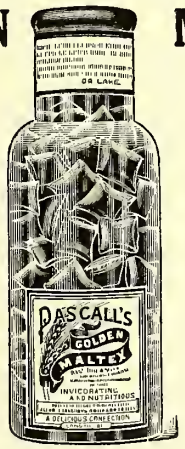
HORLICK'S MALTED MILK CO.
SLOUGH, BUCKS., England.

A NEW SIZE TO SELL FOR ONE SHILLING.

One Dozen Flasks for Counter Display.

PASCALL'S

GOLDEN MALTEX



Contains 25% Pure Malt Extract of especial food value for Children.

6d. & 1/- BOTTLES.

4 OZS. **3½d.**

¶ Pascall's Golden Maltex is admirably suited for sale by Chemists, owing to its nutritive and restorative qualities.

¶ Order through your Wholesale Druggist, or direct from the manufacturers,

JAS. PASCALL, Ltd., LONDON, S.E.

Corks for Chemists

NATIONAL INSURANCE CORKS.

6 & 8 oz., 1 in. long, at 4½d. per gross.
30 gross bag post free for 11/-

Free sample sent on application.

N. W. MITCHELL & SONS, Ltd.,
"Bouchon" Works,
Limehouse, London, E.

SAL HEPATICA

PUT UP FOR EXPORT.

Small	Size,	3 oz.	bottle,	in case.
Medium	,,	7 ,,	,,	,,
Large	,,	16 ,,	,,	,,

OBTAINABLE IN LONDON FROM

Thos. Christy & Co., 4-12 Old Swan Lane, Upper Thames Street, E.C.

The American Drug Stores, Trafalgar Bldgs., 6 Northumberland Avenue, London, W.C.

Burgoyne, Burbidges & Co., 16 Coleman St., E.C.

F. Newbery & Sons, Ltd., 27 Charterhouse Square, E.C.

Roberts & Co., 76 New Bond Street, W.

BEFORE placing your orders for

WHITE OILS

Paraffinum Liquidum. Water & Half White. All S.G.

send your inquiries to

SCHLIEMANN'S OIL & CERESINE CO., LTD.,

London House,
3 New London St.,
E. C.

Tel. No.: 5411 Avenue. 3
Tel. Add.: "Mannschlie."

METHYLATED SPIRIT

Buy from one of the Oldest Houses in the Trade.

Write for Prices. **ESTABLISHED 1794.**

SAMUEL THORNLEY, LTD., BIRMINGHAM

6d.

Make your old Hat a new one.

In bottles, 6d. each, in separate neat cartons, with suitable brush.

These Dyes are a distinct invention, dyeing the straw without an objectionable varnished appearance, and producing the effect of new goods.

NO GLOSS.
NO POLISH.

On the P.A.T.A.

Write for terms, patterns, also leaflet of testimonials.

"Luton" HAT DYE

WHITAKER & CO., COLOUR WORKS, KENDAL, ENG.
London Depot: 60-62 CLERKENWELL ROAD, E.C.
Special Non-Inflammable Series for Export. Est. 1878.
Telegraphic Address: "Dullette Kendal." Telephone: No. 214.

If you already have a Dental Practice, or if you are contemplating establishing one,

YOU NEED OUR ILLUSTRATED CATALOGUE.

In it you will find everything that you want, of the highest quality, at the lowest prices.

DENTAL MANUFACTURING EDWARDS COMPANY LIMITED

Drop a Postcard at once for it.

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Branch Depot:
30 Finsbury Pavement, E.C.

Please Try Our DISPENSING BOTTLES & PHIALS.

We send six gross assorted or otherwise, carriage paid, to any address in the United Kingdom. Smaller quantities not carriage paid.

REDUCED PRICES.

Clear Blue Tinted.—Good Quality.

3 & 4	6 & 8	12	16 ozs.	Plain or graduated, round edges.
8/-	9/-	13/-	18/-	per gross.

Clear Blue Tinted. Best Quality. QUININE.

3 & 4	6 & 8	12	16 ozs.	Plain or graduated, round edges.
10/-	11/-	16/-	20/-	per gross.

CHEAP BOTTLES for Dispensing.

3 & 4	6	8 ozs.	Plain or graduated, round edges.
7/-	8/3	8/6	per gross.

WHITE PHIALS—GOOD QUALITY.

½	1	1½	2 ozs.	Plain or teaspoons.
4/-	4/6	4/9	5/3	per gross.

I. ISAACS & CO.,

106 MIDLAND ROAD, ST. PANCRAS, LONDON, N.W.,
or ISLINGTON BOTTLE COMPANY, 7 New Inn Yard, Tottenham Court Road, London, W.

Orders sent to either establishment have attention.
Established 100 Years.

In Constant Demand all over the World.

Over a quarter of a century of uninterrupted success as a specialised preparation.

Unsurpassable reputation for genuineness. Never claims to do more than it can accomplish.

"HIRSCHENSPRUNG" REGISTERED "DEER LEAP" TRADE MARK

KUTNOW'S POWDER

For Liver, Kidneys & Bowels.

The Incomparable Morning Health Invigorator.

Dr. ERNST OTT, physician to the late King Edward VII., at Marienbad, wrote:—"I have for some time prescribed Kutnow's Powder for many of my patients as an after-cure to the treatment here in Marienbad, and have always received good reports as to its efficacy. I consider it a most efficient aperient, as it always produces a free bilious discharge, without discomfort, griping, or any bad after-effects. In many cases of inactivity of the liver I was delighted with the prompt effect. I found it of very great use in very bad cases of Dyspepsia, and can therefore conscientiously say that it is one of the best, most efficient and agreeable of remedies.

SIMPLE—SAFE—SALUTARY—SANITARY—SATISFACTORY

It is on the P.A.T.A.
It is well advertised
It is very popular
It is a good article
It is never dead stock
It yields a good profit
It satisfies everybody

The Doctors prescribe it
The Nurses recommend it
The Public appreciate it
The Customer comes again
The demand is constant
The sales are increasing
The trade is booming

ORDER AT ONCE FROM YOUR WHOLESALE HOUSE.

WINDOW SHOWS ATTRACT REMUNERATIVE BUSINESS.

Send for Dummies & Showcards.

POST THIS COUPON.

YOU CANNOT AFFORD TO RUN OUT OF STOCK.

To S. Kutnow & Co., Ltd., 41 Farringdon Road, London, E.C.

NAME.....

ADDRESS.....

.....

Fill in, cut out, and post in open envelope, ½d. stamp, to

Sole Proprietors

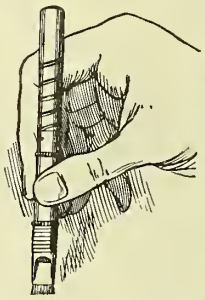
S. KUTNOW & Co., Ld.,

41 FARRINGDON ROAD, LONDON, E.C.

Sells at Sight.

From the "Chemist and Druggist" of June 27, 1914:—

A NEW MAGIC ERASER for removing ink from ledgers and other surfaces where an alteration is desired is introduced by Messrs. Barclay & Sons, Ltd., Farringdon Street, London, E.C. In construction and principle it resembles a pencil, but instead of the lead there is a bundle of spun glass, which forms a brush at the end, and by simply rubbing this on the paper the ink is removed. Our sketch shows how it is used. There could be nothing simpler, and certainly nothing in the eraser line more effective. It is equally good for ordinary writing-ink or for typewriting, and it is excellent also for touching up photographic negatives. Messrs. Barclay are putting it on the market in small showcases holding a dozen. These cost 4*s.* per case net, thus enabling the retailer to sell each pencil at 6*d.*, and refills are also supplied to retail at 3*d.* each. This is a line that chemists should stock, for it



Sells at Sight.

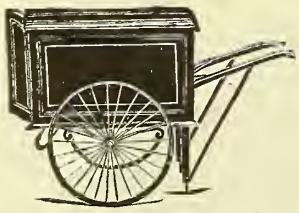
SHOP FRONTS
and
Modern Improvements.

H. MILLS, the Chemists' practical Shop Fitter, Shop Front Builder with the latest designs and largest experience. Plans submitted for structural Alterations. Estimates free.

Steam Works:
163-5 OLD STREET, LONDON, E.C.

On hand—a large stock of Drug Fittings, Counters, Dispensing Screens, Wall Cases, etc., equal to new.—Bargains!

CHEMISTS' HAND-CARTS,



finished in any desired colours are one of our most popular lines of manufacture.

We are also makers of

Trucks and Trollies

of all descriptions for Home and Export, for which we have won a world-wide reputation.

For Illustrations and Prices write
CREWE & CO., 1 Crown Point Rd., & Hunslet Lane, LEEDS;
And 322-4 Gray's Inn Road, London, W.C.

JAMES F. WILKINSON
MEDICAL LABEL PRINTER

UP-TO-DATE AND ARTISTIC
DESIGNER, ENGRAVER, and PRINTER
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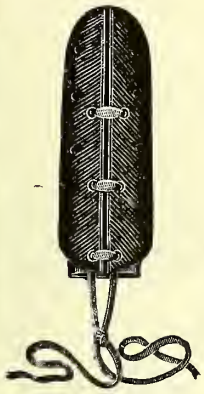
PAROUBEK'S



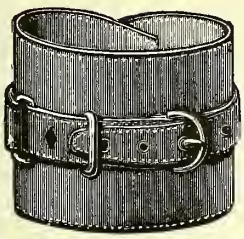
"FOLDO"

LACING

FINGER STALLS

(BLACK OR TAN)

3/9 PER DOZEN.



PAROUBEK'S "TRIUMPH" WRIST STRAPS

(Felt lined). 3/9 per doz.

BOTH THE BEST.

Of all Wholesale Houses.

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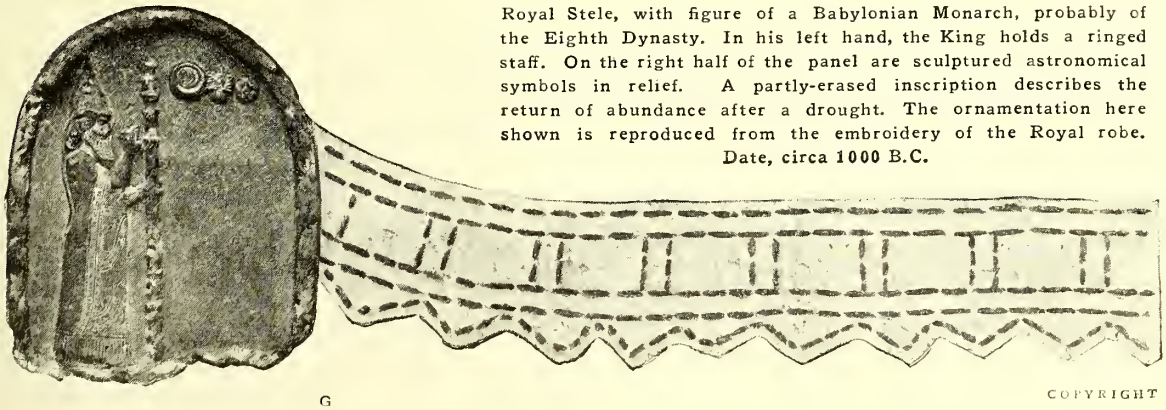

Royal Stele, with figure of a Babylonian Monarch, probably of the Eighth Dynasty. In his left hand, the King holds a ringed staff. On the right half of the panel are sculptured astronomical symbols in relief. A partly-erased inscription describes the return of abundance after a drought. The ornamentation here shown is reproduced from the embroidery of the Royal robe. Date, circa 1000 B.C.

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ANOTHER WEEK

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SUMMARY.

Subscribers are advised to read this column first.

Articles and Communications.

Ruta graveolens is the subject of this week's Minor Botany article (p. 34).

English drug-trade statistics extracted from the 1911 census are given on p. 51.

An interesting analysis of perfumery formulas by Mr. E. H. F. Brittam is published on pp. 51-52.

Australian honey does not catch on so well in this country as it might. We explain why (pp. 49 and 50).

The Insurance Commissioners' second annual report is unobtainable, but is briefly summarised as regards pharmacy service on p. 50.

We discuss the question as to whether preparations or admixtures of arsenic for medicinal purposes can be treated as Part 2 poisons (p. 48).

An advance note on the business to come before the Pharmaceutical Associations Conference in London next week is printed on p. 50.

"Xrayser II." refers to a number of pharmaceutical and medical words which occur in the latest part of the New English Dictionary (p. 47).

An official checker communicates some considerations regarding Insurance prescriptions, which Conference delegates should read. They begin on p. 55.

Mr. A. Higgs's motions regarding breaking bulk of stamped medicines are discussed on p. 49, where we show that official rulings are against him. See also his letter on p. 64.

Mr. W. H. Gibson, B.Sc., of Dartford, describes an improved method of estimating sulphur in pulv. glycyrrhizæ co., which gives more accurate results than the method usually followed (p 64).

News of the Week.

The Irish Pharmaceutical Preliminary examination results are on p. 36.

The new trade-mark law of Siam is concisely explained on p. 53. It comes into force on October 1.

The death of Mr. B. Kristo Paul, the founder of the extensive Calcutta drug-business, is reported (p. 44).

The validity of provision for liquidated damages in anti-cutting agreements has been sustained by the House of Lords (p. 39 and p. 51).

The names of those who have passed the Minor examination in Edinburgh this month and the Major examination in London are printed on p. 46.

The Select Committee on Patent Medicines will meet next week to consider the Chairman's report, points in which are suggested in a note on p. 54.

The fine weather continues to beguile chemists and others in the drug and chemical trades to the country and the seaside, a large number of outings being reported on pp. 58-59.

The titles of more papers communicated to the British Pharmaceutical Conference are given on p. 36. About two hundred persons have notified the Chester local Secretary that they are to attend the meeting.

The legal reports are numerous and important. They include several convictions under the Poisons and Pharmacy Acts of Ireland (pp. 40-41), the argument in the London Part 1 case (p. 41), with reports on shop-management cases in Glasgow and Cardiff, and a full report of the appeal in the Bradford Wincarnis-with-quinine case, the conviction of a chemist being quashed (p. 42).

Trade and Market Matters.

Opium, morphine, codeine, and cloves are dearer. Ammonia sulphate, bergamot oil, and shellac are firmer. Castor oil and copper sulphate are easier. Lemon oil, Chinese cantharides, coriander-seed, otto of rose, and benzols are cheaper (p. 60).

B

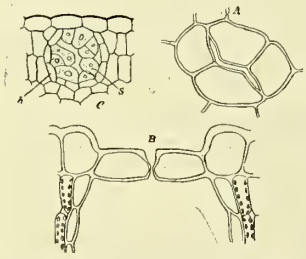
Minor Botany.

Being the twenty-third of a series of articles for pharmacy students which commenced on January 3, 1914.

THE *Rutaceæ* are a natural order well represented in the tropics and southern hemisphere, but no members of it are native to this country, although rue (*Ruta graveolens*, L.), indigenous to Southern Europe, is cultivated in our gardens. The natural order belongs to the group in which isomery (*i.e.*, equal number of flower parts, generally four or five) and union of carpels prevail. Among these the rue family is distinguished by the presence of leaves "dotted" with oil-glands and isomery being usually quite complete. Rue is a perennial plant, about two or

RUTA GRAVEOLENS.

three feet high, woody at the base, but with upper branches smooth, green, and herbaceous. The leaves are compound, being bi- or tri-pinnate, the ultimate segmentation varying considerably in shape, but being usually spathulate (spoon-shaped) or obovate with an obscurely waved (crenate) margin. The bluish-green leaflets are somewhat thick, and when held up to the light transparent dots (oil-glands) are visible. These are seen greatly magnified in the sketch (in surface view at A and in section at B and C). At C a young gland is shown in section with secreting cells (dotted, *s*) separating (schizogenous origin of gland; *schizo*=split, *gen*=I arise); later these break down, so the oil-cavity is lysigenous (*i.e.*, produced by absorption). The cavity is surrounded by a well-marked layer of cells, *h*. Histologists differentiate between lysigenous and schizogenous glands, but those of rue show that it is not safe to dogmatise, because both splitting apart and absorption of cells occur in the formation of its glands. In A is represented the pore of the gland, with its four lid-cells, this arrangement closely resembling a breathing-pore (stoma) which opens and closes for the regulation of ingress and egress of gases. In section B the resemblance is more marked still, but the use is quite different from that of a stoma. The cells surrounding the gland-cavity exert considerable pressure on the



contents, which do not escape spontaneously through the pore, but are discharged only when the leaf is forcibly bent. This accounts for the slight odour of the leaves, which becomes quite powerful when they are rubbed. It is not certain whether the oil-glands represent reservoirs of excretory products or whether they serve as a protection against excessive insolation or against attacks of animals. The somewhat elaborate discharging arrangement suggests that the intense odour suddenly liberated on encounter with an animal may cause the latter to take fright.

The yellow flowers appear from June to September, and are arranged in an inflorescence with flowers at the same level, known as a corymb. The united calyx is persistent, with four or five acute segments, the four or five petals being free and slightly concave. The stamens are usually ten in number (sometimes eight), and the ovary, of five or four united carpels, has a prominent honey-disc at the base.

MEDICAL MEMORANDA.

Coloured Chloroform and Ether.

IT appears that medical men sometimes mistake chloroform and ether, and that fatal accidents have occurred through using chloroform in a Clover's inhaler in place of ether. To guard against this danger, Dr. P. F. Barton, in "The Lancet" (1914, II., 60), suggests that these anæsthetic agents should be given distinctive colours—pink for chloroform and green for ether. He states that Messrs. Duncan, Flockhart & Co. are prepared to supply these coloured fluids. He adds that the green used for the ether is a pure vegetable product 1 in 1,400; the red in the chloroform is an aniline dye 1 in 200,000.

New Remedy for Tuberculosis.

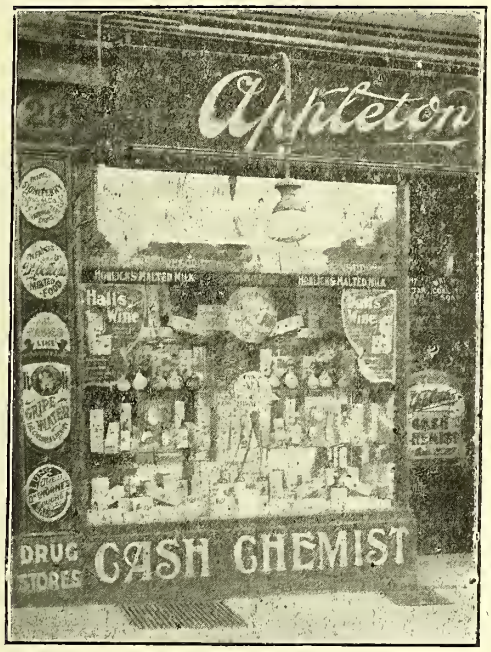
AFTER experiments extending over a year and a half, Speiss and Feldt report in a German contemporary on the use of cantharidin-ethylene-diaminoaurocyanide in tuberculosis. By condensation with ethylene-djamine the injurious action of the cantharidin on the kidneys is avoided. A somewhat different compound was first used, but finally only the above condensation-product, which was recognised as being the least harmful, was employed, and 1,500 intravenous injections were made on 100 patients. Commencing with 0.025 gram, a robust adult may be given up to 0.1 gram, while the maximum dose for women and less robust persons is 0.075 gram. The injection must be frequently repeated (sometimes more than forty times). The effect on tuberculosis of the larynx was chiefly investigated, a few cases of lupus and of tuberculosis of the lung being also under observation. Subjective irritation and throbbing take place in the diseased organs, with reddening and inflammation, but these symptoms pass away and resorptive processes begin in the tissues, the healing process frequently only commencing after very many injections. On the whole the new remedy was well borne by the patients. More recently it has been used in conjunction with other treatment, especially surgical operations. Investigations with respect to the use of this substance for tuberculosis of other organs are proceeding in some hospitals, but are still incomplete. The authors give a warning against arseno-combinations, injurious effects having been observed following their use. The new remedy is not yet obtainable in the market.

PITCHBLEND has been discovered in an old mica-mine at Singar, in the Gaya district of Bihar, India, which contains 83 per cent. of uranium oxide, and the yield of hydrated radium bromide is expected to be 260 to 315 milligrams per metric ton.

GREEN ALKALOIDAL COLOUR.—Professor E. Schmidt, of Marburg, finds that the green colour produced when codeine phosphate or morphine hydrochloride is moistened with pure sulphuric acid *plus* one drop of ferric-chloride solution to 10 c.c. is due to selenic acid in the moistening mixture. He describes the matter fully in a communication to the "Archiv der Pharmazie," June 27, 1914, p. 161.

CHEMISTS' WINDOWS.

New ideas for dressing windows are invited. Photographs of windows sent to the Editor for reproduction should be accompanied by notes on how the displays were arranged.

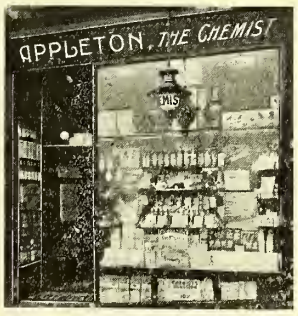


A Punning Poster.

In connection with the recent Hall's Wine window competition, Mr. J. T. Appleton, chemist and druggist, 298 South Road, Walkley, Sheffield, made, as will be observed from the above reproduction of a photograph, a good display of the wine. In the centre was a disc with the punning allusion

"THIS IS h'ALL'
you require to
regain your
HEALTH."

It was a good display, and Mr. Appleton was among those rewarded by the proprietors of the wine, although he did not reach the double-figure awards. Mr. Appleton appears to have the American sense of shop-front evolution; that is to say, he is not slow to alter the frontage if it will help business. We have before us another photograph of the same front, in which the words of the facia and the window-ledge differ. The above photograph shows a decided improvement upon the other. Besides the Walkley pharmacy in a thickly populated district, Mr. Appleton has a branch at Hillsboro', which is under the management of a qualified lady pharmacist. This branch is situated in the Sheffield and West Riding Insurance areas, and does a lot of dispensing for insured persons in the surrounding district.



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LIME-JUICE containing sulphur dioxide in the proportion of not more than 2 grains per pint may be imported into the Australian Commonwealth, the Customs authorities having raised no objection.

ENGLISH AND WELSH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

Sir Jesse Boot has purchased for 2,800*l.* a double-fronted shop and house at 98 London Road North, Lowestoft.

The premises of Messrs. Laycock & Co., sheep-dip manufacturers, Skipton, were seriously damaged by fire on July 2.

Mr. Gilbert Daniel, ironmonger, Holsworthy (Devon), has applied to the County Council for an agri-horticultural poisons-licence.

Woolwich Board of Guardians have increased the salary of the dispenser at the Woolwich Dispensary (Mr. T. Johnstone) by 10*l.* per annum.

Members of the Ucal Lodge of Pharmacy visited Messrs. Parke, Davis & Co.'s laboratories and works at Hounslow on Thursday, July 2, and Wednesday, July 8.

A motor engine mounted the footpath and dashed into the window of Mr. Wm. Scholes' pharmacy in Church Street, Eccles (Lancs), on July 6, smashing the plate-glass window and doing considerable damage to stock.

Guildford Town Council, on June 30, refused to grant an agri-horticultural poisons-licence to Mr. W. J. Brown, 185 High Street, Guildford, on the ground that the reasonable requirements of the public are already satisfied.

Winchester City Council on July 2 granted agri-horticultural poisons-licences to Mrs. Mary E. Frampton and Mr. H. S. Frampton, 30 and 31 Jewry Street; Mrs. Kate Frampton, 7 Parchment Street; and Messrs. Arthur R. Hillier, Arthur Saunders, and Sidney Wm. Bragg, 95 High Street.

At Ashford, on June 30, Lawrence Phillips and B. Stone were charged with the theft of a camera, value 2*l.* 5*s.*, from Mr. Stedman, chemist and druggist, High Street, Ashford, with whom Phillips had been an errand-boy. It transpired that Stone took the camera when he went to the shop for a toothache-mixture. The Bench discharged Phillips, and placed Stone under probation for a year.

Croydon Provident Dispensary has closed its dispensing department, owing to the depletion of the membership through the Insurance Act taking the workers away, and the Committee have entered into a contract with Mr. D. P. Roberts, chemist and druggist, to supply medicines and take the members' subscriptions on behalf of the Committee. Mr. George Reed, who has been dispenser at the institution for 10½ years, has therefore lost his appointment.

The annual meeting of the National Association for the Prevention of Consumption was held at the Leeds University on July 8. The annual report of the Council states that never before have the possibilities of successful work been so great. The National Insurance Act has stimulated activity rather than, as was feared, lessening the scope of the Association's work. The subjects discussed at the annual meeting were the house in relation to tuberculosis, and the surgical treatment and domiciliary treatment of tuberculosis.

A London Land Purchase.

Sir Joseph Beecham, Bart., has signed an agreement to purchase the Covent Garden Estate, which is described as the largest purchase of London land that has ever taken place. The transaction involves, it is stated, a sum of 2¼ millions sterling, and the first instalment of the purchase-money was paid on July 6. It appears that the purchase is made from Mr. Mallaby-Deeley, who last year entered into a contract with the Duke of Bedford for the acquisition of the estate. The resale to Sir Joseph is made at a considerably higher sum than was involved in the case of Mr. Mallaby-Deeley.

Store-prices.

The Civil Service Supply Association circular for July gives prominence to salines, liver-salt, seltzogenes, lime-juice, mosquito-lotion, perfumes, etc., which "are either

made up in the Association's own laboratory or prepared for the Association from approved formulæ." Weed-killers, insecticides, and similar products are also mentioned. The following alterations in prices are noted: Burgess's Lion ointment, 1*s.*; Lion pills, 1*s.*; citric acid, lb. 2*s.* 7*d.*; orris-root (best Florentine), lb. 1*s.*; powdered, lb. 1*s.* 1*d.*

British Pharmaceutical Conference.

Mr. R. Cecil Owen, B.Sc., Local Secretary of the British Pharmaceutical Conference, sends us a list of visitors to the Conference who have purchased tickets. The list contains the names of 199 ladies and gentlemen, these including sixty-four from the London district, thirteen from Scotland, and five from Ireland. There are at least four members to be present from Australia. The success of the Conference is already assured, and given fine weather the visitors are sure to bring away pleasant recollections of their stay at Chester.

Subjoined are titles of additional papers offered for the meeting:

The composition of tinctura iodi decolorata.
Determination of ferric iron in the presence of phosphoric acid.
The examination of anæsthetic ether of commerce.
The difference in the rate of dialysis of galenical preparations and the alkaloids obtained from them.

The Hon. Secretaries desire us to request those authors of papers for the Chester meeting who have not yet forwarded their MSS. to do so at once.

Contracts.

The following have been settled:—

Ormskirk Guardians.—Garsides, Ltd., for drugs.
Canterbury City Council.—Walker & Harris, appointed chemists for six months.
Dartford Urban Council.—Adcocks, Ltd., and the United Alkali Co., Ltd., for disinfectants.
Wolstanton and Burslem Guardians.—Mr. L. W. Piggin, chemist and druggist, Tunstall, drugs.
Camberwell Guardians.—Smith & Nephew, Hull, for 25 gals. pure Norwegian cod-liver oil.
Burton-on-Trent Town Council.—Sir S. W. Royse & Co., Ltd., for 8,000 to 10,000 gals. of benzol at 10¾*d.* per gal.
Hull Corporation (Asylum Committee).—Clark & Co., for drugs for six months; Mr. Thos. Hill, for aërated waters.
North Bierley Guardians.—Harrison, Parkinson & Co., chemists and druggists, Bradford, for drugs for six months.
Monmouth Guardians.—Mr. Frost, chemist and druggist, has been appointed chemist-tradesman for the ensuing twelve months.
Sheffield City Council.—E. Rennick, G. H. Crossley, the Blind Institute, and C. Hoyland & Co., for annual supplies of brushes and combs.
Isle of Wight Guardians.—Timothy White Co., Ltd., Mr. D. F. Ritchie, Ph.C., Mr. A. Millidge, Ph.C., and Mr. E. Ruston, Ph.C., for druggists' goods.

Birmingham.

Messrs. Raynes, "dispensers under the National Insurance Act," are altering a shop at the corner of Bath Row and Cregoe Street and furnishing it as a dispensary.

The Birmingham and Midland Hospital for Nervous Diseases, established at Bath Row, Birmingham, on June 23, 1913, is doing good work. Patients are seen on Mondays, Wednesdays, and Thursdays from 1.30 P.M.

It fell to the lot of Sir Thomas Barclay to act as spokesman on behalf of the City Magistrates on the occasion of their expression of condolence on the death of Birmingham's greatest citizen, Mr. Joseph Chamberlain. Sir Thomas attended the funeral on Monday last; Colonel Wyley also.

Liverpool.

Mr. John H. Robinson, Secretary of the Liverpool Chemists' Association, has resigned that office to the great regret of members generally. The matter will come up for consideration at a meeting of the Association.

Many displays of "Amami" shaving-powder and "Amami" cream are being made by chemists in the city. This is in connection with the free-gift scheme which Messrs. Prichard & Constance, Ltd., have been advertising.

Manchester.

Messrs. Mottershead & Co., 7 Exchange Street, have recently had a large and handsome lamp fixed over the shop-front.

Thanks to the splendid response by the public to the appeal made by the local daily Press to secure 25,000*l.* worth of radium for Manchester hospitals, more than half the amount required has already been subscribed.

The invitation extended by the Manchester Corporation to the British Association to hold their meetings in 1915 in Manchester is supported by the Council of Senate of the Manchester University. Rooms of the University would be placed at the disposal of the Association by the Council.

July 4 was Degree Day at the Victoria University, Manchester. Among those who received degrees were the following: Dr. Sydney J. Clegg, son of Mr. J. Clegg (Messrs. James Woolley, Sons & Co., Manchester), who received the degree of Doctor of Medicine; Dr. Clegg is at present assistant medical officer of health at Newcastle-on-Tyne. Mr. Reginald Allen Eastwood, son of Mr. Eastwood, chemist and druggist, Brunswick Street, Oxford Road, Manchester, won a scholarship in law, and received the degree of LL.B. Mr. Hugh Bell, son of Mr. Joseph Bell, chemist and druggist, London Road and Upper Brook Street, Manchester, was awarded the degree of M.Sc.—Mr. Berry has just passed the Final B.Sc. examination of the Manchester University in chemistry and pharmaceutics (Higher Division).

The Warble Fly.

At a recent meeting of the Cheshire Chamber of Agriculture, the injury and loss sustained by stockowners, as a result of the attacks of the ox warble-fly, was discussed, and it was stated that at the Bunbury-Aldersey Grammar School, Cheshire, the students had for years made a practice of going into the fields and exterminating the pest by collecting ox warble-maggots from the backs of cattle. The Chamber decided that it should be compulsory for stockowners to dress the backs of their cattle during certain months with a suitable preparation to destroy the eggs of the fly. Mr. Akers, Chairman of the Glamorganshire Chamber of Agriculture, stated, at a meeting of that body on July 4, that since using train oil as a remedy for ringworm on cattle, he had hardly had a warble-fly on any of them.

The Board of Agriculture recommends flowers of sulphur 4 oz., oil of tar 4 oz., and train oil 1 quart to be mixed and smeared on the animals' legs just above the hoof. From May to September is the time for it. See "Pharmaceutical Formulas," p. 879.

IRISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Pharmaceutical Society of Ireland.

The following is the result of the Preliminary examination held recently in Dublin: Helen Rae Cunningham, Ballymoney, and Isaac Mark Fisher, Dublin, passed with honours. The following also passed: David John Patterson, Newtownards; Archibald Harold McKay, Antrim; John Stewart Kane, Kilrea; Chancellor Gibson, Belfast; Michael MacElroy, Tempo; George Walsh Sleator, Augher; Patrick Hayes, Dublin; William Jones, Portadown. Ten candidates were rejected.

Brevities.

Mr. Denis Slattery, Ph.C., late of Carheeny, Kildimo, has opened a pharmacy at Castlepollard.

A new medical hall has been opened at Logan Street, Thomastown, co. Kilkenny, under the management of Mr. Harry Grainger, Ph.C., late of Messrs. Hamilton, Long & Co., Dublin.

An inquest was opened on July 4 at Newtownbutler relative to the death of a woman named Brady, who was stated to have employed for the cure of a cancer of the breast a plaster obtained from a private source. A *post-mortem* examination of the body is to be made, and for this purpose the inquest was adjourned.

The following pharmaceutical representatives were at the funeral of Mr. G. M. Ryan, Ph.C., at Mount Jerome Cemetery, on June 27 : Sir Thomas W. Robinson, Dr. J. S. Ashe, and Messrs. F. Anderson, H. Conyngham, R. S. Conyngham, G. G. Williamson, John Smith, F. T. Parker, P. Kelly, and H. S. Misstear.

The Local Government Board has written to the Callan Guardians complaining of the delay in forwarding for analysis samples of a consignment of drugs delivered at the Union on January 2, and questioning whether the analyst's certificate can be accepted in the present instance as a compliance with the regulations. Before coming to a final decision the Board was willing to consider any explanation which the medical officer concerned is willing to make regarding his neglect in dealing with the matter. The letter was referred to the doctor.

SCOTTISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

Mr. William Adams Ness, chemist and druggist, Aberdeen, has been appointed a Justice of the Peace for the County of Aberdeen.

Chemists whose shops are on the route to be taken by the King and Queen on their visit to Dundee on Friday, July 10, have had their fronts titivated, and Messrs. Davidson & Gray, Nethergate, gave a further lead by putting up their decorations on Monday.

A Chance for a Chemist.

A meeting of about 300 insured persons has been held at Whitburn to protest against the arrangements made by the Insurance Commissioners for the supply of drugs to insured persons in the burgh. Dr. Campbell explained the position taken up by the Commissioners. In districts such as Whitburn, where there is no chemist, a capitation grant of 1*s.* 6*d.* is given to the doctors for the supply of drugs and dressings. This arrangement worked well until the Insurance Committee decided that doctors who dispense must be dealt with on the same basis as chemists, and must submit duplicates of all prescriptions. He appealed against the decision, and friendly societies' representatives petitioned the Commissioners on the matter, but nothing further had been heard of it. When the decision of the Insurance Committee was come to Dr. Campbell decided to continue to supply drugs for three months up to July 15, but now insured persons are faced with the alternative of having to walk to Bathgate or Armadale for their drugs. Dr. Campbell added that he had already offered to give all his prescriptions to any chemist who would start business in Whitburn, but no one had come forward. The meeting decided to petition the Commissioners.

Edinburgh.

The King has accepted a copy of Mr. James Mackenzie's new book, "The Life and Works of Michael Bruce."

The veterinary hospital and laboratory, together with the general practice of veterinary surgeon formerly carried on at 30 King Stables Road, Edinburgh, by Mr. A. I. Maccallum, has been transferred to the Royal (Dick) Veterinary College, who will continue to carry it on at the same address, and will collect and discharge all accounts due to Mr. Maccallum in connection therewith. Mr. Maccallum is a registered chemist and druggist as well as a veterinary surgeon, and has contributed most generously towards the promotion of research in veterinary science.

At the Edinburgh University graduation ceremony, held in the McEwan Hall on July 3, the degree of LL.D. was conferred, *inter alios*, on Mr. James L. Ewing, of Messrs. Duncan, Flockhart & Co. In presenting Mr. Ewing for the degree. Professor Mackintosh, Dean of the Faculty of Law, said :

From no quarter does the University receive more efficient and valued support in her endeavours to uphold and increase the fame of Edinburgh as an educational centre than from the ancient Incorporation whose modest title—The Merchant Company—covers a whole network of agencies for the public good. In inviting one of its most honoured office-bearers there, the Senatus desired to consecrate the friendly ties that had so long bound together these two great Scottish institutions. As Master of the Company from 1907 to 1910, Mr. Ewing was the moving spirit in the equipment of its secondary schools with improved premises and increased staff to satisfy the exacting standards of the present day; he was the pilot who skilfully steered through the Parliamentary breakers the Provisional Order for simplifying the administration of its educational and charitable trusts; and when by all precedent he ought to have been dropped, he was invited to remain at the helm for one year more to ensure for the new system an auspicious start.

Glasgow.

Mr. D. G. McKenzie, chemist and druggist, has opened a branch in Parliamentary Road.

The business of Mr. James Grant, chemist and druggist, 136 Crown Street, Glasgow, has been purchased by Mr. Christopher Finlayson, chemist and druggist.

Mr. Thomas Stronach, manager of the Glasgow and West of Scotland branch of Messrs. John Mackay & Co., Ltd., on the occasion of his departure to take up a similar position in Newcastle-on-Tyne, was met in the Corn Exchange Restaurant on July 3 by a large company of business and social friends, and presented with an illuminated address and a writing-desk, with a gold watch-bracelet for Mrs. Stronach, in token of the esteem in which he is held. Mr. Stronach has also received other presentations from the Council of Glasgow Aërated Waters Association, and the employés of the company's Vermont Street works.

FRENCH NEWS.

(From the "C. & D." Paris Correspondent.)

X-ray Dangers.—Dr. Maxime Ménard, a distinguished Parisian specialist in *x* rays, is in a serious state from *x*-ray injury. He is forty-two years of age, and in 1909 founded the Radiotherapic Laboratory at the Cochin Hospital, Paris.

Honours Awarded.—In connection with the International Exhibition at Ghent in 1913, M. Barthelat, head of practical laboratories at the Paris Superior School of Pharmacy, M. Valeur, Secretary of the French Chemical Society, and MM. Famelart and Simon have been named Chevaliers of the Legion of Honor. The Cross has also been awarded to M. Veyre, doctor in pharmacy at Casablanca (Morocco).

Atomic Weight of Lead.—A note by M. Maurice Curie, nephew of the discoverer of radium, was communicated to the Academy of Sciences by Professor Moureu, of the Paris Superior School of Pharmacy. The atomic weight of ordinary lead is 207.01; that smelted from ore containing uranium, 206.5; and the metal produced from thorium ore, 207.10. Three distinct atomic weights thus exist, founded on the nature of the ore. The question whether there are really two or three kinds of lead—*i.e.*, whether common lead is not simply a mixture of the other two metals—remains to be cleared up. [See also *C. & D.*, June 20, p. 34.]

Asylum Pharmacists.—The competitive examination recently held for the vacant post of head pharmacist at one of the Paris lunatic asylums consisted of (*a*) a preliminary examination, comprising (1) identifying ten pharmaceuticals and describing the preparation of those indicated by the jury, and (2) a four-hour written paper on pharmacy, chemistry, and natural history; and (*b*) a final, in which (1) twenty minutes was devoted to interrogation on pharmacy and chemistry; (2) five hours to a quantitative analysis of a mixture of pharmaceuticals; and (3) fifteen minutes to identification of thirty plants, or drugs and pharmaceuticals. The salary of the chief pharmacist begins at 200*l.* a year and rises to about 350*l.*, with free lodgings, lighting, and heating.

A VERMIN-KILLER.—Dr. Loir, to whom Pasteur delegated the mission of coping with the Australian rabbit plague, has recently successfully dealt with the problem in France. The cemetery of Rouen, being infected with rabbits which lived on the flowers and plants laid by pious hands on the tombs of friends and relations, Dr. Loir, now Director of the Health Bureau of Havre, was consulted. He prepared a virus, which was placed in cabbage, lettuce, and carrots laid at the entrance to forty-five rabbit-holes. Few of the vegetables were actually eaten, yet the epidemic was induced and raged so effectually that, a week after, all the rabbits were killed off. Dr. Loir remarks that this experiment was simply a repetition of one made in 1887, when Pasteur requested him to destroy the rabbits which lived over Pommery's champagne cellars at Rheims.

THE FRENCH ASSOCIATION.—The Twentieth or Pharmaceutical Section is a young but apparently vigorous offshoot of the "A.F.A.S."—the French counterpart of the British Association. This year the annual A.F.A.S. Congress is to be held at Havre—the President being Professor Armand Gautier; the Vice-President Professor Albert Calmette, Director of the Pasteur Institute at Lille; and the General Secretary Professor Desgrez, of Paris. The local committee is presided over by M. Siegfried, a member of the French Parliament and an ex-Minister of State; Dr. Loir acting as secretary. This 1914 meeting is particularly interesting as a scientific "Entente Cordiale," some 350 British *savants* having (so Professor Desgrez informed me) already promised to be present, the British and French Associations thus joining forces and exchanging views. The Chairman of the Pharmaceutical Group is M. Marcel Délépine, Professor of Hydrology and Mineralogy at the Paris Superior School of Pharmacy. One of the youngest of the titulary professors of the school—he is but forty-three years of age and was nominated last year to this chair—he has a reputation for doing thoroughly whatever he takes up. The opening of the Havre Congress is fixed for July 27, and at the last monthly meeting of the Paris Society of Pharmacy a letter was read from M. Délépine inviting as many Parisian pharmacists as possible to join this summer seaside symposium of *savants*.

SOUTH AFRICAN NEWS.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is subscribed for and supplied weekly to all the members of the seven Chemists' Societies in British South Africa.

Cape Province.

P.A.T.A.—The fifth number of the "South African P.A.T.A. Record" has been published, from which we learn that J. C. Ayer Co., Savory & Moore, Coleman's Wincarnis, and Eucryl, Ltd., have joined the Association.

THE UNION GOVERNMENT is to introduce a Bill during the present Session so to amend the laws of the Union governing medical practitioners and dentists as to allow a person born in South Africa who has duly qualified as a medical practitioner or dentist either in England or elsewhere to practise in any part of the Union. The Bill has the approval of medical men, and there is likely to be no undue opposition.

Natal Pharmaceutical Society.

THE annual meeting of the Natal Pharmaceutical Society was held at Durban on June 4. Mr. Dunkerton was in the chair, the other members present being Messrs. Stranack, Gale, Tyson, Fyvie, Firth, Cooper, Whysall, Murray, Roadknight, Dauber, and Goodbrand (Hon. Secretary). The Treasurer's report showed that the revenue during the year was 46*l.* 5*s.* 6*d.* and the expenditure 27*l.* 10*s.* 3*d.*, leaving, with the balance carried forward from the previous year, a sum of 54*l.* 11*s.* 6*d.* in hand. The President, in his address, reviewed the events of the past year, and referred to the delay in consolidating the various pharmacy laws of the Provinces constituting the Union. Until this is done it is difficult to induce Colonial boys to enter pharmacy. As regards provision for education, the authorities at the Technical Institute are willing to help in forming classes if a regular number of pupils can be ensured. Other matters referred to were the new Customs regulations and the Defence Act; the demands by the latter made upon the time of assistants have been very considerable, and have interfered in some cases with examination studies. The following officers were elected for 1914-15: *President*, Mr. Morris W. Stranack; *Vice-President*, Mr. R. P. Gale; *Hon. Secretary and Treasurer*, Mr. W. H. Goodbrand; *Committee*, Messrs. Firth, Cooper, Jones, and Anderson; *Auditor*, Mr. Roadknight. A vote of thanks was accorded Mr. Dunkerton for the able manner in which he has carried out the duties of President during the two years he has been in the chair; also to Mr. Stuart Jones for the use of a room for the meetings of the Society. Mr. Todd (Redhill) was elected a member of the Society. Among the correspondence was a letter from Mr. D. S. B. Anderson regarding the Amending Medical and Pharmacy Bill. The Secretary was instructed to obtain a copy of the Bill and report to the Committee. The question of unqualified dispensers at the mines was raised and referred to the Committee to deal with.

O.F.S. Medical and Pharmacy Council.

THE monthly meeting of the Orange Free State Medical and Pharmacy Council was held on June 12. All the members were present. The following registrations as chemists and druggists were approved: Alexander Young (C. & D., Gt. Brit., 1900), The Pharmacy, Parys, and Arthur James Doet (C. & D., O.R.C., 1908), The Railway Dispensary, Bloemfontein. The recommendations forwarded as a result of the emergency meeting held on May 29 to consider the Draft Bill submitted by the Government had elicited a letter from the Secretary to the Interior, in which the following paragraph occurs:

> "With regard to chemists and druggists, I may say that certain of the Pharmacy Boards have made representations as to the desirability of chemists and druggists being excluded from the scope of the Bill, and, as the Minister only included them in the Draft Bill in order to provide a basis for a discussion of the matter with the representatives of the pharmaceutical profession, he has, in deference to those representations, accordingly decided to apply the provisions of the Bill to doctors and dentists only."

The result of the exclusion will be the continuance of the present anomalous position, under which registration in only one Province limits a person to practise in that Province, the admission-fees and formal registration being required in each Province, though the matter is one which the Union Parliament could deal with, as it has not been delegated to the Provincial Councils.

The following extract from the same letter was the subject of some discussion:

> "The resolution of the Council on the subject of the annual licence payable by medical practitioners and others" (*i.e.*, dentists and chemists and druggists) "has been noted. The matter is, however, one in regard to which it is unfortunately not in the Minister's power to interfere, as the licence-fees in question form part of the revenues of the Provincial Council. It would not be possible to legislate with reference to this in the Bill under notice."

The members of the Council expressed themselves as dissatisfied with this reply. Mr. Hewitt pointed out that in the Transvaal the chemists were not required by law to pay any formal licence, whereas in this Province not only had they to pay the 10*l.* licence to practise as chemists, but the majority found it necessary also to take out a general-dealer's licence at a further annual cost of 5*l.* The annual charge of 7*l.* 10*s.* made in the Cape Province in the case of chemists gave the right to sell any article which a general dealer could sell under his licence. In other words, the chemists in the Orange Free State paid twice as much for the same privileges as those practising in the Cape Province. Then there is the registration-fee and the examination-fee, making in all some five or six direct taxes received from chemists. There is also the foreign company's tax, which is payable annually on capital by any company not having its head office in this Province. The maximum payable in this connection was as high as 30*l.* Eventually the President (Dr. Ward), Mr. Whiteside (dental member), and Mr. Hewitt (pharmaceutical member) were chosen to represent the Council on a proposed joint deputation of the Council and the Orange Free State branch of the British Medical Association to interview the Executive of the Provincial Council on the question of the adoption of the licences.

AUSTRALASIAN NEWS.

"The Chemist and Druggist" is subscribed for and supplied weekly to all the members of nine Chemists' Societies in Australia and New Zealand.

The Commonwealth.

FOOD AND DRUGS REGULATIONS.—At the annual meeting of the Associated Chambers of Commerce of the Commonwealth, held at Perth on May 26 and following days, Mr. G. A. Parkes, of the Sydney Chamber of Commerce, was to move the following resolution:

"(*a*) That the various States of the Commonwealth be strongly urged to put their respective Food and Health Acts and Regulations upon a uniform basis at the earliest possible opportunity, and to secure also agreement between their uniform Regulations and those of the Commerce Act.

(*b*) That, while welcoming the likelihood of uniform standards for foods and drugs becoming law, this Conference protests against the inclusion therein of any regulation enforcing the disclosure of the complete formulæ of proprietary articles, as it is considered that all information genuinely useful to the public or officials can be obtained by other and unobjectionable means.

(*c*) It is also recommended that a reasonable time should be given in regard to alterations in labels."

A.P.C.—It has been tentatively suggested that the Australasian Pharmaceutical Conference would be more at home and more useful to pharmacists if it were connected with the Australasian Medical Association rather than with the Australian Association for the Advancement of Science. Opinion on this subject must be largely a matter of intuition or subconscious feeling rather than argument. It may be that pharmacists may feel less comfortable, more like a poor relation, at greater risk of patronage, when associated with a medical congress than as a subsection of the Science Association. Pharmacists, moreover, cannot be full members of the Medical Congress, which is confined to medical practitioners, members of the British Medical Association; but they are welcomed as full members of the A.A.A.S.

Victoria.

MELBOURNE COLLEGE OF PHARMACY.—The annual prize-distribution to successful students took place on May 20, the Minister of Health (Mr. J. Drysdale Brown, M.L.C.) in the chair. Professor W. A. Osborne, D.Sc., gave a lecture on "The Body as an Engine." The gold medal, the highest honour of the College, was won by Miss Ethel E. Drew.

POISONING FATALITIES.

ELEVEN deaths due to taking poisons have been chronicled during the week, four of them being due to misadventure. Concise particulars are appended:

Ammonia.—Mrs. Annie S. Anthony, of Malvern, died at Nottingham as a result of taking solution of ammonia in mistake for her medicine.—The same poison caused the death of Miss Shirley, Rochdale, who took it in mistake for a sleeping draught.

Carbolic Acid.—Jas. Stanley, Hull, intentionally ended his life by taking this disinfectant while of unsound mind.

Chloride of Antimony.—Mary Marshall, an invalid, died at Southport through taking chloride-of-antimony solution in mistake for whisky.

Morphine.—Dr. Richard B. N. Reade, a staff doctor of the London County Council's Asylum at Hanwell, who was troubled with insomnia, lost his life by taking 10 grains of morphine in mistake for veronal.

Nicotine.—Alfred Coomb, Newquay, committed suicide while insane by drinking a fumigating liquid containing nicotine.

Oxalic Acid.—W. Gray, Highbridge, committed suicide with this poison while of unsound mind.

Salt of Lemon.—Ernest Stephenson, West Hartlepool, committed suicide by taking this substance while mentally deranged.

Spirit of Salt.—Obadiah Chew, Blackburn, killed himself by drinking spirit of salt.

Kind not Stated.—A man named Smith poisoned himself in the David Lewis Hostel, Liverpool; packets containing hyoscine and veronal were found in the room.—Mrs. Cook, Newcastle-on-Tyne, died through drinking a liniment in mistake for castor oil.

LEGAL REPORTS.

TRADE LAW.

Increase of Railway Rates.—Brunner, Mond & Co., Ltd., Northwich, are appealing to the Railway and Canal Commission Court against the raising by 4 per cent. of traffic rates for the carriage of coal and ammoniacal liquors by the North Staffordshire Railway Co., London and North-Western Railway Co., and the Cheshire lines.

Boots and Dilapidations.—At the Eastbourne County Court on July 1, before Judge Mackarness, Blackstone, Ltd., claimed 96*l.* from Boots Cash Chemists (Southern), Ltd., being damages for dilapidations and loss of rent and expenses caused by the breach of covenant on the part of the defendants in respect of 58 Terminus Road, Eastbourne, the rent of which was 250*l.* The lease was granted in 1892 to the Sussex Co-operative Drug Co., and expired at Christmas 1913. It contained a covenant with regard to repairs. Some time before the expiration of the lease the plaintiffs called upon the defendants to do what was required in regard to the premises. The question of the renewal of the lease was mentioned, but was not entertained. Certain work had been done, but not to the satisfaction of the plaintiff company. After hearing evidence and counsel, his Honour said he had come to the conclusion that the 40*l.* paid into court by the defendants was ample to cover any liability to which they might be held. He therefore gave judgment for plaintiffs for 40*l.*, with costs up to the date of payment in, and judgment for defendants, with costs since that date.

Anti-cutting Agreements.—In the House of Lords last week, the case of the Dunlop Pneumatic Tyre Co., Ltd., *v.* the New Garage and Motor Co., Ltd., came up for decision. The facts were: The Dunlop Co. entered into a contract with the New Garage Co. to supply the latter with motor-tyre covers and tubes. Under the contract the New Garage Co. agreed, in return for certain discount concessions, not to, *inter alia*, sell the tyres to any private customer or co-operative society at prices less than those specified in the current price-list issued by the Dunlop Co. The concluding clause of the contract was:

"We agree to pay to the Dunlop Co. the sum of 5*l.* for each and every tyre cover or tube sold or offered in breach of this agreement, as and by way of liquidated damages, and not as a penalty."

The Dunlop Co., having discovered that the New Garage Co. had sold tyres below list-price, successfully sued them in respect of the breach of contract, and Mr. Justice Phillimore, who heard the action, granted an injunction and directed an inquiry as to damages. The Master, who conducted the inquiry, assessed the damages, and explained that he had decided that the 5*l.* fixed in the agreement was liquidated damages, and not a penalty. The New Garage Co. appealed to the Court of Appeal, which by a majority held that the sum of 5*l.* mentioned in the contract was a penalty, and entered judgment for the Dunlop Co. for nominal damages only. Finally, the Dunlop Co. appealed to the House of Lords, who decided in their favour, and gave judgment for the amount assessed by the Master.

Cattle-dip Liability.—The Judicial Committee of the Privy Council in London on July 6 had before them the petition of the British South Africa Co. for special leave to appeal from a majority judgment of the Supreme Court of South Africa (see *C. & D.*, January 31, p. 189). This was in regard to a claim for 2,000*l.* damages from Lennon, Ltd., Salisbury, Rhodesia, for having sold to the Company a cattle-dip containing sodium arsenite in such large quantities that it caused the death of many cattle and caused injury to others. The question of contributory negligence arose from the fact that on the drums of sodium arsenite, each containing 56 lb., was the following label:

"Ram's Head Brand.—'Poison.' (Head of Ram.) Arsenite of soda 80 per cent. This tin contains 8½ lb. 80-per-cent. arsenite of soda. Ram's Head Brand. The whole contents of the tin should be dissolved in 400 gals. of water to make the Natal Laboratory Dip of proper strength. Wash the tin out with water after using the contents, and then destroy the tin.—Lennon, Ltd., Cape Town, Port Elizabeth, East London, Durban, Johannesburg, Bulawayo, etc."

These labels were intended for a consignment of small tins of sodium arsenite, which had not yet arrived, and by mistake were pasted on to the drums in question by a clerk in the employ of respondents. The Company's servants caused the contents of ten of these drums to be dissolved in boiling water and placed in a tank which held 4,350 gals. of water. The cattle were driven through the tank. The result of placing what proved to be 560 lb. of arsenite of

soda in so small a quantity of water was to make a highly poisonous dip, and some of the animals died and others were injured. At the trial Mr. Justice Watermeyer decided in favour of the Chartered Company for 2,000*l.*, with costs, holding that the respondents had been guilty of negligence, and that no contributory negligence had been proved against the Chartered Company. On appeal to the Supreme Court of South Africa that judgment was reversed on the ground that contributory negligence had been proved. The Lord Chancellor, in giving judgment, thought that, apart from the facts of the case, important questions of principle were raised in it, and on these, in the courts below, the Judges were equally divided. Their Lordships, therefore, proposed to advise his Majesty to grant special leave to appeal.

High Court Cases.

Unless when otherwise stated these cases have been heard in the High Court of Justice, London.

Woodward's Trade-marks.

In the Chancery Division on July 3, Mr. Kerly mentioned the matter of Woodward's trade-marks, in which, he said, he had a motion to rectify the register. He had agreed with counsel on the other side that it should go into the witness-list with "a certain action," to be set down with the action and tried with the same evidence. Mr. Justice Joyce assented.

Labels on Table-jelly Packets.

In the Chancery Division on July 6, before Mr. Justice Warrington, Messrs. White, Tomkins & Courage, Ltd., Mark Lane, E.C., sued the United Confectionery Co., Ltd., Hull for an injunction restraining them from using certain labels on packets of jelly crystals exported to the British Colonies so as to cause confusion between their goods and those of defendants. His Lordship, after hearing evidence for the plaintiffs, said that he had to determine the question on his view of the labels. On looking at them he found it impossible to say that the defendants had done anything to injure the plaintiffs. There must be judgment for the defendants, with costs.

An Arsenic Transaction.

Before Mr. Justice Bailhache, in the King's Bench Division, on July 2, an action was brought by Compagnie Minière et Métallurgique d'Auzon, producers of arsenic, against Allen Harding & Co., chemical-merchants, Canada Wharf, Deptford. The claim was with respect to a quantity of powdered white arsenic sold and delivered, or alternatively damages for breach of contract.

Mr. Rigby Swift, K.C., who represented the plaintiffs, said the action was originally with respect to two contracts, the second of which was for 100 tons of arsenic, the whole of which plaintiffs said they had supplied, and as to which they were owed a balance of 77*l.* 19*s.* 11*d.* As to the first contract, which was for 50 tons, plaintiffs said they were ready and willing to deliver it, but they had had no instructions to do so. Defendants at first said the 50-ton contract had been satisfied, but not that for 100 tons. They had now amended their defence, and, without denial of liability, paid the whole amount which plaintiffs said was due on the October 14 contract. The point to be decided was whether the contract had been broken by plaintiffs in not delivering, or whether it had been broken by the defendants in not taking goods in accordance with the contract.

Mr. Walsh, K.C., denied that the defendants failed to give instructions for delivery, and alleged that plaintiffs, being unable to deliver, were seeking a second order for delivery in order to gain time.

His Lordship "with regret" gave judgment for the plaintiffs for the amount agreed between the parties—175*l.*; and judgment was entered for the plaintiffs for 252*l.*, which including the money paid into court. Stay of execution as to the 175*l.* was granted.

Pharmacy and Poisons Acts.

Part 1 or Part 2 of the Schedule.

We reported briefly last week the action taken by the Council of the Pharmaceutical Society against Mr. William Shadforth, Ph.C., Bow, E., under Section 17 of the 1868 Act for selling by post to a person unknown to him a preparation of arsenic. The formula of the preparation was as follows:—

Acid. arseniosi	gr. $\frac{1}{100}$
Ferri sulphat. exsicc.	gr. ss.
Ext. nucis vomicæ	gr. $\frac{1}{16}$
Calcii sulphidi	gr. $\frac{1}{5}$
Ext. gentianæ	gr. j.

Fiat pilula. Mitte xxxvj.

One after dinner.

Mr. W. H. Quarrell, in opening the case for the Society, explained that the offence with which defendant was charged was that of selling through the post pills containing arsenic to a person who was unknown to him and of failing to make an entry of such sale in a poisons-book as required by the Act. [In other words, the Council of the Society regarded the pills as a Part 1 poison, and not as one in Part 2.]

Mr. Cyril H. Kirby, who appeared for Mr. Shadforth, in his speech for a mitigation of the penalty on the ground that what his client did is done by pharmacists generally, including two members of the Pharmaceutical Council, one of them an ex-President, said:

His client's view had always been, and he was going to show that it had also been the view of the trade in general, that these pills did not come within the first item in Part 1, "Arsenic and its medicinal preparations," at all, but came within the last item of Part 2 of the Schedule. In other words, the pills were not a medicinal preparation, but an admixture containing arsenic and four or five other ingredients as well. That, Mr. Kirby repeated, had been his client's view all along. He had quite openly acted upon it, because the formula of the pills was specifically stated upon every box sold. His Worship would see that the first item of Part 1 of the Schedule mentioned the word "preparations," and the last item of Part 2 mentioned "preparations or admixtures." Of course, it was obviously a question as to whether a particular thing containing arsenic was a preparation of arsenic or an admixture containing arsenic. Defendant's suggestion was that an article which contained four or five ingredients could not be considered a preparation of each of those ingredients. And if it were not a preparation of each of those ingredients, there was no reason for saying that it was a preparation of arsenic. On the other hand, it was quite clear that it was an admixture containing arsenic. This point, however, had never been the subject of any considered legal judgment; at any rate, it had never come up before the High Court since the Act of 1908 had been passed. That had been the view that his client had acted upon, and it had been the view of the trade generally.

The Magistrate (Mr. Chester Jones): Yes, but do I now understand that you have given up that view?

Mr. Kirby: Yes, because my client says the Pharmaceutical Society is the prosecuting body in these cases, it is the governing body for the trade, and it is their duty to administer the Act.

Mr. Chester Jones: And are they satisfied?

Mr. Kirby: He is content to accept their view and to comply with their view. May I say this, sir? The view of my client has been the view held by the trade and has been the view of the very Council of this body even up to within the last few days. I say so because my client has had a number of purchases made from leading chemists, including the late President of the Pharmaceutical Society. These purchases were of the very pills which he is summoned for selling, and the chemists supplied them exactly in the same way as he supplied these.

Mr. Quarrell at this point intervened, saying that "The particular point in this case is that he sold the pills by advertisement and by post to a person who was unknown to him. As to the question of admixture, preparation, and so forth, I go back to the Armson case, where it was decided that the sale of a preparation containing poison is a sale of poison."

A conversation ensued between the Bench and Bar, in the course of which Mr. Kirby submitted a typewritten statement to the Magistrate in proof of the custom of the trade. This set forth that on June 21 the defendant sent a recipe for a mixture containing arsenic and mercuric chloride to a West-end chemist firm, who dispensed it "without demur." Another chemist wanted the doctor's signature to it. The next day it was dispensed by four leading firms; four others declined to supply it. On June 23 the above formula for pills was presented to a number of pharmacists and drug companies; fifteen supplied it, two refused. Similar

tests were made in Brighton on June 24, and again in London on June 25. The Magistrate, as the result reported last week indicated, was satisfied that this established the trade custom, and justified "no conviction on the defendant paying costs."

Prosecutions in Glasgow.

At the Sheriff Court, Glasgow, before Sheriff Boyd, on July 3, Alexander McIntosh Chisholm, chemist and druggist, 178 Crown Street, Glasgow, was charged, at the instance of Mr. W. J. Uglow Woolcock, Registrar under the Pharmacy Acts, with the offence of not *bonâ-fide* conducting the business by himself or other duly registered chemist and druggist, and not exhibiting on the premises the name or certificate of qualification of the person conducting the business.

Mr. Donald McKay, on behalf of the respondent, objected to the relevancy of the complaint on the grounds of want of specification, in respect that it did not state the manner in which respondent failed to give the business personal supervision, and that respondent could not be twice charged with the same offence.

Mr. James Barrie, for the complainer, submitted that the charge was under Section 15 of the Pharmacy Act, 1868, as amended by Section 3 of the 1908 Act, and that no further specification was required; also that the respondent was charged with separate offences on different dates (May 1 and 30).

Sheriff Boyd repelled the objections.

Respondent then tendered a plea of guilty. On his behalf Mr. McKay stated that his client was in a difficulty with regard to the contract with the Insurance Commissioners, and the business was now closed. That contract allowed him to employ a man who had been for three years employed as a dispenser to a doctor.

His Lordship imposed fines of 3*l.* for each of the two offences, and 1*l.* 3*s.* 6*d.* of expenses

At the same time Solomon Shearer, assistant to Mr. Chisholm, admitted two contraventions of the Acts on May 30, when he sold poisons—namely, a mixture which contained strychnine and also a quantity of chloroform liniment. The Sheriff imposed a fine of 2*l.* for each offence, with 1*l.* expenses—5*l.* in all—the option being twenty days' imprisonment.

Annie Gillies, also an assistant in Mr. Chisholm's shop, pleaded guilty to a charge of selling red precipitate on May 1. Mr. Barrie, for the complainer, thought the cases already dealt with should be a sufficient warning, and expressed his willingness that respondent should be admonished. The Sheriff accordingly dismissed Gillies with an admonition.

A Company's Shops.

At the Cardiff County Court on Thursday, July 9, the Pharmaceutical Society sought to recover two penalties of 5*l.* each from Gwilym Evans, Ltd., of 158 City Road, 10 Caroline Street, and other places, for keeping open shop for the sale of poison, contrary to the provisions of Section 15 of the Pharmacy Act, 1868. Evidence was given of the purchase of Harrison's Nursery Pomade (which contained veratrine) at City Road, and Nurse Parish's Pomade at Caroline Street. In the former case the sale was made by a boy of sixteen, and in the latter by Owen Meredith Owen, who was proved to be on the register. His Honour gave judgment for the Society in the first case, and for the defendants in the second case. A penalty of 5*l.* was also recovered from Victor Evans, the assistant at the City Road shop, but the Society undertook not to enforce it. Mr. John Robb, the defendants' superintendent, denied the sale at City Road.

Pharmacy Acts (Ireland).

Cases in Kilkenny.

At the Graigue-na-Managh (co. Kilkenny) Petty Sessions on July 1, before Mr. Creagh, Resident Magistrate, and local Justices, Mrs. Kate Prendergast, provision-dealer, Graigue, was charged under two summonses for (1) selling Cooper's dip (arsenical), and (2) failing to enter the sale in the poison-book. Inspector Butler had made the purchase on March 11, and James Rice, assistant to Mrs. Prendergast, was charged with selling the dip. Mr. Wm. C. Meeke, solicitor, appeared for the Pharmaceutical Society, and Mr. O'Dempsey, solicitor, appeared for the defendants. Evidence was given by the purchaser, and by Mr. W. Thorp as to the analysis of the dip. The Magistrates imposed a fine of 5*l.*, with 1*s.* 6*d.* costs, on the first summons against Mrs. Prendergast, and a fine of 5*s.*, with 1*s.* 6*d.* costs, on the second summons. They fined the assistant 5*l.*, with 1*s.* 6*d.* costs.

Mr. William Patrick Kennedy, Ph.C., Borris, co. Carlow, was also charged on two summonses with an offence against the Acts in that while lawfully keeping open shop for dispensing and compounding medical prescriptions at his Medical Hall at Graigue-na-Managh he did not personally manage and conduct the shop nor employ a manager qualified according to law. The offence was admitted, and the Magistrates imposed a fine of 10*s.*, with 1*l.* costs, on each summons.

Mr. Michael J. Murphy, J.P., Graigue-na-Managh, was charged on two summonses with selling Cooper's dip. The facts were similar to those in Mrs. Prendergast's case, and the offences were admitted. The Court imposed a fine of 5*l.*, with 1*s.* 6*d.* costs, on the first charge, and a fine of 5*s.*, with 1*s.* 6*d.* costs, on the second charge.

Several Convictions.

At the Kanturk, co. Cork, Petty Sessions on July 4, before Mr. Hardy, Resident Magistrate, and four Justices of the Peace, Mr. Daniel Forde, Main Street, Kanturk, was summoned, at the instance of the Pharmaceutical Society of Ireland, for (1) unlawfully keeping open shop for the sale of poison, and (2) selling arsenic (Cooper's dip) to a person unknown to him (Patrick Butler) and contrary to the manner prescribed by the Sale of Poisons (Ireland) Act. Mr. Forde's premises were described as guano, seed, wine, spirit, and grocery warehouse, and hardware, timber, and iron stores.

Denis Murphy, an assistant in Mr. Forde's employment, was also summoned for selling the Cooper's dip to Patrick Butler. Mr. William C. Meeke, solicitor, prosecuted on behalf of the Pharmaceutical Society; and Mr. H. H. Barry, solicitor, appeared for the defence.

Mr. Barry pleaded guilty on behalf of his clients.

Mr. Meeke expressed his willingness to withdraw the charge against the assistant if he was allowed 1*l.* costs in each of the cases against Mr. Forde.

Mr. Barry agreed, and the charge against the assistant was marked "Withdrawn"; and the Court fined Mr. Forde 5*l.*, with 1*l.* costs, on the charge of selling, and 1*s.*, with 1*l.* costs, on the charge of neglecting to enter the sale.

There were also seven summonses against Mr. Timothy F. O'Connell, Main Street, Kanturk, which briefly were as follows: (1 and 2) keeping open shop for retailing or dispensing poison, (3) compounding British Pharmacopœia medicine (laudanum) otherwise than according to the B.P. formula, (4 and 5) keeping open shop for dispensing or compounding medical prescriptions, (6) selling poison (arsenic in Cooper's dip) not properly labelled and without entering the sale in the poison-book, and (7) selling Cooper's dip. Mr. Meeke, solicitor, prosecuted on behalf of the Pharmaceutical Society, and Mr. E. A. Beytagh, solicitor, appeared for the defendant.

Evidence in support of the summonses was given by Mr. Patrick Butler; admitting that it was as a result of his persistence that Mr. O'Connell gave him the laudanum. At the time witness was there there was no name on the outside of the premises. On a glass door inside were the words "O'Connell, dental surgeon."

Mr. Walter Thorp, F.I.C., deposed to having analysed the two samples marked "Laudanum" and the sheep-dip received from the previous witness. One sample was a mixture of clove oil and laudanum. The second sample of laudanum contained rather less morphine than was prescribed by the British Pharmacopœia. The arsenic in the sheep-dip was sufficient to poison half the inhabitants of Kanturk.

Mr. Beytagh submitted that his client ought not to be convicted. He had had "chemist and druggist" erased from his signboard. After that he refused to compound several prescriptions and sent them to a chemist

in the town to be compounded. Things went on in that way until Mr. Butler arrived on the scene and asked for several articles with which Mr. O'Connell refused to supply him. Counsel strongly animadverted upon Inspector Butler's behaviour.

Mr. Meeke, in reply, said he had thought Jules Verne was dead, but he now thought he was not. (Laughter.)

The Court asked Mr. Meeke whether he pressed for a conviction on all the summonses.

Mr. Meeke said he did not want to ruin the defendant, and would be satisfied with convictions on three of the summonses.

The Magistrates accordingly convicted on three of the summonses, fining the defendant 5*l.* with 1*l.* costs on the first, 5*l.* with 1*l.* costs on the fourth, and 1s. with 1*l.* costs on the sixth. The other summonses were marked "Withdrawn."

Licensing Consolidation Act, 1910.

WINCARNIS WITH QUININE: SUCCESSFUL APPEAL.

At the Bradford Quarter Sessions, Bradford Town Hall, on July 4, Mr. T. R. D. Wright, the Recorder, heard and decided the appeal by Mr. Oliver Hobson, chemist and druggist, manager of the shop of J. Savage & Co., Ltd., 658 Manchester Road, Bradford, against the conviction by the Bradford Magistrates on May 29 for selling wine by retail without a licence, contrary to Section 65 of the Act. The case was reported in the *C. & D.*, June 6, pp. 40-41. The wine sold was Wincarnis with quinine. The appellant was represented by Mr. Gordon Hewart, K.C., M.P., and Mr. Harold Newell (instructed by Mr. C. H. Kirby on behalf of the Chemists' Defence Association), and the respondent (Mr. Joseph Farndale, the Bradford Chief Constable) was represented by Mr. Frank Beverley and Mr. Sharp (instructed by Mr. J. G. Gunter, of the Town Clerk's Department).

The sale having been admitted, Mr. Beverley explained that the action was taken under Section 65 (1), as follows:

"Subject to the provisions of this Act, a person shall not sell or expose for sale by retail any intoxicating liquor unless he holds a Justices' licence authorising him to hold an Excise licence for the sale of that intoxicating liquor, nor at any place except that for which the Justices' licence authorises him to hold an Excise licence for the sale of that liquor."

By the Finance (1909-10) Act, 1910, Section 52:

The expression "wine" means wine imported into Great Britain or Ireland.

The expression "sweets" means any liquor which is made from fruit and sugar, or from fruit or sugar mixed with any other material, and which has undergone a process of fermentation in the manufacture thereof, and includes British wines, made wines, mead, and methylin.

The Justices based their conviction on the belief that Wincarnis with quinine came within the definition of wine.

Proof of the purchase and of the composition was given, the latter by Mr. F. W. Richardson, F.I.C., F.C.S., who stated that the result of his analysis of the article was as follows:

Alcohol	18.25 per cent.
Meat extract	0.40 per cent.
Malt extract	5.38 per cent.
Quinine sulphate	0.22 per cent.
Port-wine solids	8 per cent.
Water	67.75 per cent.

In cross-examination by Mr. Hewart, this witness adhered to his previous statement that the liquor was a wine which contained some substances foreign to wine. He admitted that Wincarnis with quinine contained exactly the same quantity of quinine as the quinine-wine of the British Pharmacopœia, and that the Pharmacopœia contains seven medicated wines.

This closed the case for the respondent.

Mr. Hewart submitted that the respondent had failed to establish his case. Section 65 opens: "Subject to the provisions of this Act," and Section 110 states:

Unless the context otherwise requires—

The expression "intoxicating liquor" means spirits, wine, beer, porter, cider, perry, and sweets, and any fermented, distilled, or spirituous liquor which cannot, according to any law for the time being in force, be legally sold without an Excise licence.

Section 111 of the same Act states:

(2) Nothing in this Act shall affect or apply to—

(*h*) The sale of medicated or methylated spirits, or spirits made up in medicine and sold by medical practitioners or chemists and druggists.

Mr. Hewart pointed out that this Act does not define wine, but spirits is defined by Section 3 of the Spirits Act, 1880, as "spirits of any description, and includes all liquors mixed with spirits and all mixtures, compounds, or preparations made of spirits."

The Recorder: Would that include wine according to your argument?

Mr. Hewart said certainly it would not include wine *per se*, but what he submitted was that Section 3 read with Section 111 (*h*) of the 1910 Act includes such a compound or mixture as they had to deal with in this case. Alcohol being spirit, Wincarnis is a mixture, compound, or preparation made with spirit; and, in the light of Section 111 (*h*) the Act does not apply, and this Wincarnis had become a medicated spirit in the expanded sense. He asked the Recorder to hold, therefore, that the term "medicated spirits" in the Licensing (Consolidation) Act includes all medicated mixtures, compounds, or preparations made with spirit.

The Recorder: If you had started with brandy as your basis instead of port wine?

Mr. Hewart: Nobody could have complained in the least.

The Recorder: But the difficulty in my mind is how you turn it from wine into spirits.

Mr. Hewart said if they had started with brandy and medicated that they would have been clearly within the exemption of Section 111 (*h*). The point here was as to the proportion of alcohol, which was similar to that in port, but it was equally true that the medicated wines of the British Pharmacopœia also contain substantially that same proportion of alcohol, and nobody would dream of suggesting that, therefore, they were wines subject to licence.

The Recorder said he did not understand the case to be based merely on the proportion of alcohol, but on the assertion that it was port wine; and to prove that it was port wine they examined it and found the average amount of alcohol was about the same.

Mr. Hewart said that even supposing the basis of Wincarnis was port, it would surely be repugnant to reason to describe the total compound as port. Suppose a wine-merchant had an order from a customer to supply port, and he supplied Wincarnis with quinine, could it possibly be argued that that was a performance of the contract? If a retailer sold this as port wine, would it not be certain that if he were proceeded against it would be held not to have been a sale of an article of the nature and substance demanded? An article, whether port wine or anything else, might be altered in such a way as to disentitle one to call it by the title by which it could properly be described at the beginning. Mr. Hewart further called attention to Section 6 of the Excise Licence Act, 1825, which provides that the granting of licences should be done by the Commissioners of Excise, and the persons who should grant these licences are to be such persons as the Commissioners may appoint. Reading that side by side with Section 110 of the Licensing Act, giving a definition of the meaning of intoxicating liquors, he was prepared to establish it as a fact that the Commissioners of Excise had quite deliberately decided to permit these medicated wines to be sold without an Excise licence upon the ground that the introduction of the drug into them had rendered them so unpalatable that they were useless as a beverage. He proposed to show this in two ways. First of all, he had a written statement from the Inland Revenue Board, signed by the Assistant Secretary; and, in the second place, he had the testimony of Mr. Scanlon, the Surveyor of Excise for the Bradford Second District, as to his practice in the matter.

Mr. Beverley objected to the course proposed, on the ground that Section 6 of the Excise Licence Act, 1825,

does not authorise the Commissioners to decide whether any licence is required.

The Recorder remarked that he would deal with the objection when he knew exactly what was to be suggested.

Mr. Cyril Herbert Kirby was then called, in order to produce a document from the Board of Inland Revenue, dated May 7, 1908, with reference to the sale of Coleman's Wincarnis with quinine, without a wine-licence, by a registered chemist or druggist.

Mr. Beverley objected, and the Recorder said he could not admit the letter.

Mr. Maurice Bartholomew Scanlon, Surveyor of Excise for the Bradford Second District, was then called under subpœna, and by permission of the Commissioners of Customs and Excise he said he was prepared to give evidence as to their instructions and practice about Wincarnis with quinine.

Mr. Beverley objected, but the Recorder admitted the evidence, which was to the effect that he had written instructions from the Commissioners with regard to the sale of Coleman's Wincarnis with quinine. He had never sought to recover penalties against a person whom he knew to be selling it without a licence.

Mr. Hewart submitted that he was now entitled to ask the witness whether he knew what the practice of the Commissioners of Excise is in this matter, and then to leave his learned friend to cross-examine the witness upon that practice if he chose.

The Recorder assented to that course, and, in answer to Mr. Hewart's questions, Mr. Scanlon said he knew what the practice of the Commissioners is, and a statement of that practice was contained in communications which he had received from them.

Mr. Hewart then said that he did not propose to call the rest of the evidence that he had, and submitted that, this being a criminal case, the burden was upon the prosecution to prove their case. He submitted that the prosecution had failed, because it had not satisfied the Recorder that what was contained in the bottle was wine within the meaning of Section 65.

Mr. Beverley, in reply, said Mr. Richardson had stated in his evidence that the bottle contained 94 per cent. of port wine, and although there was 6 per cent. of other ingredients, these had not by their introduction caused any chemical change. He submitted that Section 111 (*h*) relates solely to spirits. If the Legislature had intended that medicated wines should also be exempted, he submitted that they would clearly have extended the exemption provisions for that purpose. This Act had been passed only four years ago, and medicated wines were well known then, so that it could not be held that the Legislature could not easily have excluded them from the necessity of a licence if it had wanted to do so.

The Recorder, in giving his decision, said the case was one of some technical difficulty, particularly in regard to the consideration whether or not this was a wine which could be legally sold without Excise licence. The evidence that the Commissioners of Excise did so regard it was not binding upon him, and he had to make up his mind to the best of his ability as to what he thought, apart from what the Commissioners or anybody else might think, was the nature of this Wincarnis with quinine. The difficulty here was this—that it was alleged that this was wine originally but was now no longer wine; and one of his difficulties in the case was that apparently there was no definition of wine in any Act of Parliament or in any case that could be quoted before him to assist him in coming to a conclusion as to what is wine and what is not wine. It was, perhaps, a new position for anybody to have to decide a legal point of that kind and to have to determine that upon his own idea, based on the evidence, as to what was ordinarily supposed to be wine in a colloquial and ordinary acceptance of the term. On the evidence before him he could not come to the conclusion that this mixture was wine, and inasmuch as the conviction was for selling wine and he had come to the conclusion that in fact Wincarnis with quinine is not wine, the result was that, in his judgment, the conviction was wrong; therefore, that the appeal against the conviction must be allowed, with costs.

LIMITED COMPANIES.

New Companies Registered.

P.C. means Private Company and R.O. Registered Office.

POMEROY'S "MOA" WATER-SOFTENER, LTD. (P.C.).—Capital 2,000*l*. The first directors are J. Pomeroy and F. H. Marshall.

SHAW'S DRUG CO., LTD. (P.C.).—Capital 500*l*. Objects: To carry on the business of Shaw's Cash Drug-stores carried on at 71 Webb's Road, Battersea Rise, S.W. W. Shaw is managing director and secretary.

DEIONS, LTD. (P.C.).—Capital 20,000*l*. Objects: To carry on the business of manufacturers of and dealers in medicines and medicinal preparations, etc. The first directors are C. D. Fuller and G. A. Kerr. R.O., 31 Budge Row, E.C.

BRISTOL AND DISTRICT QUALIFIED DENTISTS' SOCIETY, LTD. (P.C.).—Capital 2,000*l*. The first directors are W. R. Ackland, V. M. Crosse, J. C. Wing, R. Willcox, H. J. Wyatt, and A. M. Watson. R.O., 37 Clarence Road, West Street, Bristol.

CHAS. POTTS, LTD. (P.C.).—Capital 1,500*l*., in 1*l*. shares. Objects: To take over the business of a chemist, druggist, and grocer carried on at Bath Street, Ilkeston, as "Charles Potts." The first directors are R. C. S. Potts (permanent managing director), W. G. Fletcher, and H. J. F. Badcock.

CHARLES BEST, LTD. (P.C.).—Capital 4,000*l*. Objects: To carry on the business of chemists, manufacturers, warehousemen, etc., and to acquire the business carried on by A. J. Doe, W. Taylor, and T. H. Hedges at 38 Hertford Road, Kingsland, N. The first directors are A. J. Doe (managing director), W. Taylor (works manager), Rev. L. Nixon, and E. Etchel.

OSMOND & SON (NEW ZEALAND), LTD. (P.C.).—Capital 2,000*l*. Objects: To carry on in New Zealand and elsewhere the business of manufacturers of and dealers in animal medicines, drug and spice grinders and merchants, manufacturers of and dealers in sheep-dips, disinfectants, and carbolic preparations, chemists, druggists, etc. The first directors are L. K. Osmond and J. H. Hopkins, both of Grimsby.

Company News.

APOLLINARIS AND JOHANNIS, LTD.—The directors' report for the year ended March 31 states that Mr. Francis J. Schilling has been appointed to fill the vacancies caused by the death of Mr. Julius C. Prince, vice-chairman and managing director. Sales of Apollinaris water during the year amounted to 38,460,000 bottles, compared with 37,561,000 in 1912-13. The net profits for the year amounted to 190,433*l*., making, with the balance, 217,941*l*. The directors recommend a balance dividend of 4½ per cent. on the ordinary shares (7 per cent. for the year); that 20,000*l*. be placed to reserve fund, which will then amount to 210,000*l*.; and that 21,141*l*. be carried forward.

SYDNEY SMITH & SONS, LTD.—This company trades at The Stores, Kirkdale, Sydenham, and a meeting of its creditors was held at the London Chamber of Commerce offices on July 1. Mr. Shay (T. Keens, Shay & Co.), the liquidator, presided, and reported that the net assets are 6,376*l*. and liabilities 2,705*l*., showing a surplus of assets of 4,030*l*. In answer to questions, the liquidator stated that offers are being made for the business as a going concern, and it was believed that all the creditors would be paid in full. A resolution was unanimously passed confirming the voluntary liquidation of the company, with Mr. Shay as liquidator, and an informal committee of three of the creditors was also elected. The following are creditors: Allen & Hanburys, Ltd. (12*l*.); George Borwick & Sons, Ltd. (12*l*.); Bovril, Ltd. (36*l*.); Bryant & May, Ltd. (10*l*.); E. Cook & Co., Ltd. (25*l*.); J. C. & J. Field, Ltd. (25*l*.); Ingram & Royle, Ltd. (16*l*.); J. Knight, Ltd. (15*l*.); E. F. Langdale (17*l*.); Lever Bros., Ltd. (20*l*.); S. Maw, Son & Sons (10*l*.); Schweppes, Ltd (12*l*.); Stephen Smith & Co., Ltd. (20*l*.); Weston & Westall, Ltd. (13*l*.); Wright, Layman & Umney, Ltd. (11*l*.).

SOME LONDON CHEMISTS, according to the "Daily Sketch," are doing so well in saline drinks that they are talking of setting aside special rooms for their patrons.

TWO USEFUL SUGGESTIONS for dispelling flies and blight are: (1) Sprinkle sawdust moistened with paraffin where they infest; (2) soak bathbrick with paraffin, powder, and use as a dusting-powder in the ordinary way by bellows or perforated can.

BANKRUPTCY REPORTS.

Re Washington Palmer, 44A Rusholme Road, Chorlton-on-Medlock, late 2 Slade Lane, Longsight, Manchester, Chemist and Druggist.—At the first meeting of creditors, held on July 8 at the Official Receiver's offices, Byrom Street, Manchester, the statement of affairs showed liabilities amounting to 420*l.* 3*s.* and assets estimated to realise 167*l.* 5*s.* The debtor attributed his failure to lack of capital, non-payment of the full amount due to him under the National Insurance Act, and decline in turnover since the Act came into operation, together with interest on loans from moneylenders. The matter was left in the Official Receiver's hands.

Re George Arthur Hebblethwaite, 69 Church Street, Drypool, Hull, Chemist and Druggist.—This debtor applied at the Hull County Court on July 8 for his discharge. The Official Receiver stated that a dividend of 3*s.* 8*d.* in the pound was paid on unsecured liabilities of 168*l.* 3*s.* 9*d.* The bankrupt had purchased the business from his father in 1881, and carried it on until he became aware of his insolvency in August 1912 (*C. & D.*, 1912, II., 501, 742). A trading account showed that his net profit in 1910 was 68*l.* 10*s.* 1*d.*; 1911, 87*l.* 7*s.* 5*d.*; and 1912, 81*l.* 3*d.* Mr. Priestley Cooper (for the debtor) stated that the shop originally belonged to the debtor's father, and he took it over for the amount of the mortgage, 500*l.* Church Street at that time was the main thoroughfare from Drypool to Holderness Road, but some ten or twelve years ago the Corporation made a new street from the end of Salthouse Lane Bridge to Holderness Road, running in the main parallel with Church Street. They pulled down a considerable area, thickly populated, and the debtor at once experienced a falling-off in his trade, and could not move into a more advantageous position because he was saddled with the freehold of the shop, and he had to keep down the mortgage interest. The question of whether he was solvent or not depended to a large extent upon whether the shop would realise 500*l.* Debtor consented to a judgment for 32*l.* 5*s.* being entered against him in order to make the dividend 6*s.* 8*d.* in the pound, and subject to the same being paid within a month. Judge Fossett Lock granted him an immediate discharge.

GAZETTE.

Partnerships Dissolved.

Bowdler, W. A., and Bickerdike, R. B., the Eagle Chemical-works, Oswaldtwistle, chemical-manufacturers, under the style of Bowdler & Bickerdike.

Carter, F. H., and Bellamy, H. F., Putney, physicians and surgeons, under the style of Carter & Bellamy.

Charpentier, A. E. L., and Walker, F. E., Uxbridge, general medical practitioners, under the style of Drs. Charpentier & Walker.

Roper, A., M.D., and Owsley, G. C., M.B., Lewisham and Blackheath, general medical practitioners, under the style of Dr. Roper & Dr. Owsley.

Taylor, W. E., & Co., 58 Cadogan Street, Glasgow, wholesale chemists; as far as regards W. E. Taylor. Alfred H. Gracie continues the business.

The Bankruptcy Acts.

Receiving Order.

Stokes, H. F., Highbury Place, London, doctor of medicine.

BIRTHS.

Authenticated notices are inserted without charge.

Bennett.—At 102 Queen's Road, Wimbledon, on July 6, the wife of Charles T. Bennett, B.Sc., F.I.C., Ph.C., of a daughter.

Calvert.—At the Medical Hall, Ballyclare, on June 27, the wife of George Ruddell Calvert, Ph.C., of a daughter.

Douglas.—At 12 Harrogate Road, Ripon, Yorkshire, on June 30, the wife of A. James Douglas, chemist and druggist, of a son.

MARRIAGES.

Authenticated notices are inserted without charge.

Farrar—Ferriday.—At Gillingham Church, on June 25, Herbert Tricket Farrar, R.N. Hospital, Chatham, to Ethel May, daughter of the late Mr. Edwin J. P. Ferriday, Hagley Road, Edgbaston, Birmingham, and niece of Mr. Walter E. Wilton, chemist and druggist, Erdington, Birmingham.

Hindley—Smith.—At St. Phillip's Church, Southport, on July 7, Arthur Ernest Hindley, youngest son of the late Mr. Geo. Hindley, of Southport, to Marie, second daughter of Mr. John L. Smith, chemist and druggist, Manchester and Southport.

Hobbins—Williams.—At Metropolitan Church, Victoria, B.C., by the Rev. Dr. Scott, on June 11, the Rev. J. H. Hobbins, of Greenwood, B.C., to Muriel Joy, eldest daughter of Mr. John H. Williams, Ph.C., Sidney, B.C. (formerly of Bournemouth, England).

Reade—Barwell.—At St. George's, Edgbaston, by the Rev. George Flower, M.A. (brother-in-law of the bride), assisted by the Rev. H. E. Metcalfe, M.A., Vicar of the parish, on July 1, Charles James, eldest son of Mr. Thomas Reade, chemist and druggist, Wolverhampton, to Madeleine Noel, second daughter of Mr. Edward Barwell, "Ardgowan," Edgbaston.

Webb—Hudson.—At Chapel Street Wesleyan Church, Luton, by the Rev. Thomas May, M.A., on July 7, Frederick Henry Webb, chemist and druggist (Wootton & Webb), son of Mr. J. H. Webb, chemist and druggist, to Clara, third daughter of Mr. and Mrs. J. Hudson, Shirley, Brook Street, Luton.

DEATHS.

Authenticated notices are inserted without charge.

Hayes.—At Warley Common, Brentwood, on June 29, Mr. Thos. James Hayes, aged fifty-four. Mr. Hayes had carried on a drug-business in Warley Road for many years, and succeeded his father in the office of sub-postmaster there.

Paul.—At Calcutta, on June 12, Mr. Butto Kristo Paul, founder of the business of Messrs. Butto Kristo Paul & Co., Bonfield's Lane, Calcutta, aged eighty. Mr. Paul, though born of humble parents, was able to build up an enormous trade in drugs, chemicals, and allied articles, his firm having dealings in all the markets of the world. He retired from business some twenty years ago, and the concern has been continued with increasing success by his son, Mr. Bhut Nath Paul, latterly with the co-operation of his brothers, Messrs. Hari Sankar Paul and Hari Mohan Paul. The late Mr. Paul took a good deal of interest in the business, even after his retirement, and was last seen at the firm's premises in Bonfield's Lane, Calcutta, at the Bengali New Year Festival, when the works were removed to a three-storeyed up-to-date building beside the old one.

Mr. B. K. Paul.

Savege.—Mr. R. Maclure Savege, of Madras, whose death was reported in the *C. & D.* last week, had been ill for a fortnight. He passed the Minor examination in October 1890, and was forty-six years old.

Sclater.—At Burnervie, Bankfoot, on July 6, Mary Littlejohn, widow of Thomas H. Sclater, chemist, Kirkwall, Orkney, aged eighty-two.

Turquand.—At 51 Glebe Road, Hornsey, London, N., on July 4, Mr. Louis Turquand, aged sixty-seven. Mr.

Turquand was in a confidential position at Messrs. Willows, Francis, Butler & Thompson, Ltd., which business he joined when the firm of Herrings & Co., where he was employed, was taken over in 1898. The funeral takes place at Guildford on July 10.

PERSONALITIES.

Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

MR. WILLIAM JOHN CLARKE, of the Dispensary, Camberwell Infirmary, Brunswick Square, S.E., informs us that he has not resigned, nor does he contemplate resigning, his position as dispenser there. We regret that a paragraph stating that he had resigned appeared in our issue of July 4, p. 68.

KING PETER OF SERVIA has, it is said, large interests in chemists' shops.

MR. GEOFFREY G. RAPHAEL, third son of Mr. J. H. Raphael (Raphaels, Ltd.), passed the examination of the Spectacle-makers' Company which was held recently in London.

MRS. M. J. HOWELLS, wife of Mr. Idris Howells, chemist and druggist, Gwaun-Cae-Gurwen, Glam., obtained the diploma of the Spectacle-makers' Company at the examination recently held.

MR. W. J. BARNES, chemist and druggist, has been appointed one of the representatives of Dover Town Council at the Grand Court of Shepway on July 18, when Earl Beauchamp will be installed as Lord Warden of the Cinque Ports.

MR. WILLIAM MAIR, F.C.S., of Messrs. Fletcher, Fletcher & Co., Ltd., London, and Mr. Thomas Alexander, of the Royal Infirmary, Edinburgh, are visiting some of the principal centres of chemical industry in Germany and Austria.

MISS PEGGY PALMER, youngest daughter of Mr. J. Spencer Palmer, chemist and druggist, Thornbury, has passed the senior Trinity College examination in music, taking first place in the British Isles, having obtained full marks in every subject of the examination. She is only thirteen.

MR. ARTHUR BARLOW, who has been awarded the Manchester Scholarship for 1914, was a student of the Northern College of Pharmacy, Burlington Street, Manchester. He is to study at the Northern College under Mr. E. Gower Bryant, Ph.C., F.C.S., and Mr. H. Berry, Ph.C., F.C.S.

MR. CHARLES SYKES, chemist and dentist, Wauchope, N.S.W., is now on a visit to England. He is a native of Leeds, and had some experience of pharmacy there before emigrating to Australia forty-six years ago, having been for a short time with Messrs. Harvey & Reynolds in Mr. Thomas Harvey's day.

MR. R. T. SIMPSON, chemist and druggist, Lancaster, was forty-third among the fifty marksmen who represented the United Kingdom in the International rifle-shooting match, held under the auspices of the Miniature Rifle Club Society, against the United States and Canada. He made 486 out of a possible 500, although he shot in a thunderstorm.

MISS EDITH CONSTANCE LLOYD has obtained the degree of Bachelor of Arts of the University of Wales, and Mr. Joseph Henry Lloyd the degree of Bachelor of Science of the University of Birmingham, taking first-class honours in Zoology and Botany. They are the son and daughter of Councillor Henry M. Lloyd, J.P., chemist, and Mayor of Merthyr Tydfil.

MR. ALFRED HIGGS, J.P., chemist, Kingston-on-Thames, has been elected Chairman of a representative committee of townsmen that has been formed for producing high-class concerts on Sunday evenings on the Canbury Gardens, Riverside, and to promote intellectual and elevating recreation on Sundays. The arrangements were so great a success last month that they are being continued.

MR. P. J. ASHFIELD, chemist, Rhyl, as a member of the Executive Committee of the Federation of British Health and Holiday Resorts, occupied one of the places of honour at the banquet given by the Government to the French and Belgian Editors' Congress which has visited this country under the auspices of the Federation. Mr. Ashfield also formed one of the reception party which welcomed a section of the Congress on the occasion of their visit to Rhyl on June 25.

MR. THOMAS HANNAH sails this week by the *Gaika* from Southampton on his return to Amersfoort, Transvaal. Before leaving he expressed himself to us as satisfied generally with the result of his applications to the Judicial Committee of the Privy Council, in so far as he believes that in consequence no other chemist will be prosecuted in the future as he has been in the past. So far as his own case is concerned he proposes to take it up again in the South African Courts on his return.

MR. FRED M. FISK, European manager of Messrs. Parke, Davis & Co., as President of the American Society in London, presided at the Independence Day banquet held in the Savoy Hotel on the evening of July 4. There was a distinguished company, and the principal speakers were the Archbishop of Armagh, Lord Bryce, and the American Ambassador (Dr. Page). The President himself proposed the loyal toasts and "the Guests," and spoke remarkably well. His own health was the final toast of the evening.

MR. JAMES W. SAVAGE, of Messrs. J. Savage & Co., Ltd., chemists and druggists, Bradford, while motoring on July 5 in North Street, Keighley, endeavoured to evade two dogs, with the result that the car swerved and turned over, throwing the occupants out. Mr. Savage was pinned beneath the car, and sustained fractured ribs and injuries to his shoulder and foot. He was attended to by Dr. Ling, and removed home. Mr. Savage's wife and children were unhurt, but the rest of the party required medical attention for slight injuries.

BUSINESS CHANGES.

Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

MESSRS. B. IMBERT & CO. have removed to 8 Avenue Bugeaud, Paris.

THE FIRM OF J. BERNHARDI, of Leipzig, announces the retirement of Herr Ferdinand Ehrlich.

MR. J. YOUNG, chemist and druggist, has resumed business at Market Place, Douglas, Isle of Man.

MR. ROBERT B. BICKERDIKE has taken over the business of Bowdler & Bickerdike, chemical-manufacturers, Eagle Chemical-works, Oswaldtwistle (Lancs), on the retirement of Mr. W. Audley Bowdler.

THE warehouses in Coleman Street, London, E.C., of Messrs. Burgoyne, Burbidges & Co. will be closed on and after July 10, the business transacted there being transferred to new warehouses at High Street South, East Ham, E. The new works at East Ham were described in the *C. & D.*, January 30, 1909, and the transfer of the City warehouses is the last step in the organisation of the huge premises which have been built in East Ham. Thus terminates a connection with the City of this old-established business which Thomas Fynmore started in 1741 in Aldersgate Street and afterwards moved to Throgmorton Street and Coleman Street, in the heart of the City. It was this business with which R. H. Pigeon, the first Treasurer of the Pharmaceutical Society, was connected; but there is no comparison between the scope of the business in the early days and its far-reaching ramifications of to-day.

THE USE OF A NAME.—The case of John Wyeth & Brother (Philadelphia) *v.* Frank Wyeth Horner and the Frank Wyeth Horner Co., Ltd., which has been pending for some time (see *C. & D.*, July 5, 1913, p. 37), and which has to do with the use in Canada of the name Wyeth in connection with the drug-business, is finished. At Montreal Mr. Justice Archer made perpetual an interim injunction restraining respondents from using the name Wyeth in the firm-name.

Pharmaceutical Examinations.

WE have received from the Registrar of the Pharmaceutical Society of Great Britain the following lists of persons who were granted certificates by the Boards of Examiners at this month's meetings:

MINOR EXAMINATION (EDINBURGH).

Adam, George, Glasgow.
Allen, Wm. E., Wellington, Shrops.
Baikie, J., Castletown, Caithness.
Beveridge, T., Dunfermline.
Bisset, Rowland P., Arbroath.
Brown, Robson, Leicester.
Bryson, John M., Paisley.
Cameron, W. H., Kirkcaldy.
Campbell, A. R., Stirling.
Campbell, David, Glasgow.
Campbell, Duncan, Oban.
Carlaw, Alexander, Kelso.
Christie, Alexander, Arbroath.
Climie, James, Glasgow.
Dennison, R H., Newcastle-on-Tyne.
Duncan, Manson G., Fyvie.
Duthie, Alexander, Rosehearty.
English, Wilfred, Silloth.
Fulton, James A., Paisley.
Grant, P. J., Grantown-on-Spey.
Hetherington, Wm., Glasgow.
Judge, Edgar W., Bourne.
Marshall, Sarah C., Dalkeith.
Oldham, Gerald V., Ruswarp, near Whitby.
Robson, S., Felling-on-Tyne.
Seals, J., Berwick-on-Tweed.
Seaton, James, Lochgilphead.
Shepherd, John L., Aberdeen.
Shields, James, Paisley.
Spalding, Annie F., Glasgow.
Stout, Charles B., Lerwick.
Thomas, Hugh W., Glasgow.
Thomson, James, Mossat.
Wall, John G. F., Chesterfield.
Wand, Allan E., Leicester.
Wilkinson, V. C., Whitley Bay.

MAJOR EXAMINATION (LONDON).

Brindle, Fred, Bolton
Chambers, S. B., Sutton-in-Ashfield
Cockton, William H., Wigton
Crick, Arthur, Northampton
Dickinson, Kenneth S., Hoole
Dootson, Norman, Bolton
Garlick, Wm. E., Friskney
Haylock, John O., Tulse Hill
Hortop, C., Barrow-in-Furness
Macdiarmid, Margaret A., Forres
Phelan, Albert E., Nottingham
Plant, John G. B., Wigan
Robb, Wm. A., Wisbech
Rowe, Geo. A., Fisherton
Rushbrooke, S. A. W., Crewe
Simkin, Ernest P., Rugeley
Wallace, Percy A., Ashton-under-Lyne

Our American Letter.

(Special Correspondence to the "C. & D.")

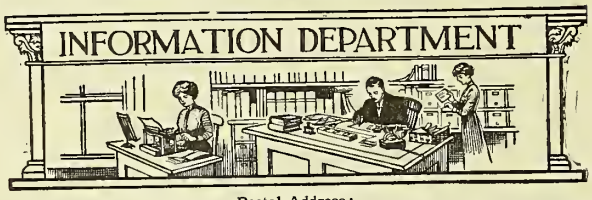
St. Louis College of Pharmacy is fifty years old, and it intends to celebrate the event in a suitable manner next October.

Guaranty Labels.—The Government has extended the time of the discontinuation of the guaranty labels and serial numbers to May 1, 1916, so as to enable manufacturers to dispose of goods so labelled.

Fire.—Great damage was done by fire to the Mallinckrodt Chemical-works, St. Louis, on June 11, which destroyed two ether-factories, a chemical-factory, and three stores. The damage is estimated at $225,000. The employés are in the meantime continued on the pay roll.

A.M.A. Meeting.—The annual meeting of the American Medical Association was held at Atlantic City from June 22 to 26. It was attended by about 4,000 medical men, and among the guests were Dr. Harold Collinson (Leeds), Mr. E. M. Corner and Dr. Wilfred Harris (London), and Mr. John Fraser (Edinburgh). The Section of Pharmacy and Therapeutics, under the chairmanship of Dr. John F. Anderson (Washington), was well attended. Among the papers was one by Dr. W. Salant on "The Pharmacology of Sodium Tartrate," which dealt with the toxicity of that substance under various conditions. It was stated that in rabbits a rich carbohydrate diet increases the toxicity of tartrates. Another interesting discussion was in regard to specific and protective ferments. An attempt was made to set up a Council of Pharmacy, which would deal with complaints regarding the dispensing of prescriptions. It was also suggested by Dr. F. E. Stewart, of Mulfords, that manufacturers of biological products should combine for their mutual protection. A medical exhibition was also arranged, among the firms showing being Burroughs Wellcome & Co., E. K. Wampole (Philadelphia), H. K. Mulford, Apollinaris & Johannis, Ltd., Armour & Co., Schering & Glatz, Westcott (Baltimore), and E. B. Squibb & Son. The exhibits of surgical instruments and books preponderated. Among the incidents of the meeting was a dinner of the American Medical Editors' Association, at which the 200 guests were presented with copies of a mock "Joynal" in imitation of the "Journal of the American Medical Association."

THALLIUM DEPILATORY.—When thallium pomade is used there is always the risk of absorption, though this occurs only very rarely. The effect of absorption might show itself either by a general depilatory action or by effect on the general system.—*Lancet.*



Postal Address:
C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London, E.C.
Telegraphic Address: "CHEMICUS CANNON LONDON" (two words).
Telephone Number: BANK 852 (two lines).

INFORMATION WANTED.

Postal or telephone information as to the names and addresses of the agents for or makers of the undermentioned articles is solicited. Please address as above.

19/41. Edible stearine of cottonseed oil
20/12. "Million" brand toilet-soap.
19/22. Nicol's or Nicolli's antigonococcic vaccine.
21/48. "Glycamyl of Roses."
23/5. Sominil tablets.
23/3. S's (London) suspensory bandages (No. 83).
21/51. "Liveloutoo" skin-lotion.
22/65. "Jesolin" menthol cream.
23/71. Dr. Salvano's santal perles.
20/44. Refills for "Flos-pick."
20/440. Dr. Sloan's potash tablets.
20/441. "Mellilin."
20/442. Roneegno tonic.
18/310. "Royen" beetle and moth virus.
18/31. Hardy's anti-midge.
18/311. Pearsall's plain dental silk.
18/312. "Litham," for killing moths.
23/74. "Hæmostal" tablets.
11/21. Bloom's health-pills.
11/210. Liquid seltzer (for the bath).
25/46. "Fluxe."
25/460. "Myclocene Oil," for deafness.
25/9. Hooper's digestive candy.
26/14. "Security" feeder: makers.
25/3. Glass tubes containing freezing mixture as used in House of Commons for cooling beverages.
25/67. "Fairy Brush" liquid for external application for rheumatism.
25/22. Wood's vaccination shields.

INFORMATION SUPPLIED.

Inquiries in regard to the following articles have been answered. The information will be given to others who send a stamped and addressed envelope for it to the above address.

Acetophenone, 20/443
"Aero" vacuum flask, 22/66
Aluminium boxes, 12/60
Antikamnia tablets, 19/20
Antiphlogistine, 19/32
"Arts" ointment-mills, 14/70
Auriphone, 1/10
"B. & G." olive oil, 20/26
Battliwalla's fever and ague mixture, 19/2
Bergamot oil (pure), 11/2
British Antitoxine Co.'s products, 13/48
"Buhach" insecticide, 20/44
Callosol hydrarg., 8/61
Caoutchoucine (for India), 13/11
Capsule machinery, 22/70
Cascaromat, 19/600
Christia tissue, 21/74
Clements' brain and nerve tonic, 5/2
Collotype postcard printers (for South Africa), 153/25
Court-plaster (perforated) and styptic combined, 20/61
"Cow and Gate" brand powdered milk, 16/29
"D. & R." cold-cream, 19/203
Deflocculated graphite, 20/25
Dentifrice Lacoste, 17/32
Deschamps' preparations, 23/12
"Diamond" soda-water machine, 19/3
Drying ovens (large), 22/37
Golcryst, 155/31
Harrison's eye-shades, 19/4
Harris's "Sublimior," 20/444
Henri Allard tooth-brushes, 32/50
"Herno" trusses, 21/50
Holland's insoles, 19/1
Hygiama, 23/42
"Ideal" bottle, 20/62
Kirn's phospholactine, 21/49
"Kolynos" dental cream, 19/20 and 24/410
Kuhn's sterile catgut, 19/320
"Lalkala" asthma-cure, 23/4
Lanza's reguloids, 23/9
Laverain tablets, 20/60
McCreath's acidimeters, 6/55
Mechanical figures for window-displays, 16/22
"Melba" face-powder, 8/63 and 16/40
Mendit, 5/68
Mixture de la Mecque, 1/300
Murray's gout-specific, 12/20
Plaster-spreading machinery, 15/17
Potato therapeutic preparations, 10/8
Ptyalin-tablets, 11/17
Riodine (Astier), 259/51
Sanaglobin, 6/120
Sander's eucalyptol, 5/200
Soda-crystals (for bath-salts), 259/67
Tin boxes for capsules, 12/60
Valeronal, 14/71
Vermite, 16/21

OBSERVATIONS AND REFLECTIONS.

By Xrayser II.

The Tables of Figures

supplied by Mr. C. A. Hill in your last issue are truly remarkable, both for the extent of the work summarised and the valuable information embodied in them. Their publication at a time when the new B.P. is still in the "proof" stage is most opportune, since they furnish reliable evidence as to the actual conditions obtaining in chemical-manufacture and of the purity or otherwise of all the common chemicals. Mr. Hill must be congratulated on the public spirit that has prompted him to carry through the work—not by any means the first of its kind for which pharmacy is indebted to him. At a first glance it seemed to me that the figures for the separate years might have been dispensed with, the highest and lowest results only being necessary, but further study reveals curious facts which justify Mr. Hill's method. For example, the "salt of tartar" figures show that in three years (1910-12) twelve samples were examined, the worst of which showed 20 parts of arsenic per million, whereas in 1913, of five samples the worst showed 350 parts and the best 100 parts per million. This extraordinary change in the character of commercial salt of tartar is accounted for by the change from pearlash to a mineral potash. Of fifty-one samples of potassium carbonate, on the other hand, not one contained more than 1.6 part of arsenic per million or 2.5 parts of lead, and all were well within the recognised limits of purity.

An Expert Examination

of prescriptions dispensed under the Insurance Act is what we have been waiting for, and now that it has been done by a such a well-known statistician as Dr. J. F. Tocher we may be sure it has been thoroughly done. I trust that it will be published, for it should be of great value. Considering the diversities of medical training, class of practice, lack of experience in prescribing, and other factors, it is really surprising that there has not been more friction in the working of the Act, so far as dispensing is concerned. It is inevitable that inequalities should arise, but as doctors generally get into the hang of the business these will be smoothed out sooner or later, and we shall by-and-by get into a more uniform system, under which profits as well as prescriptions can be roughly standardised and estimated. The first step to this desirable position is to know exactly where we are, and the Scotch Insurance Commissioners are to be congratulated on having placed in such eminently capable hands the duty of finding it out.

"Territorial Representation"

is a taking phrase, and I commend it to the consideration of pharmacists, not in connection with the Executive Committee of the Conference, for to discuss modes of representation on a non-representative body is farcical, but with reference to the Council itself. Our present mode of electing this body is a mockery of the representative idea; but "Territorialism" conceded there, we should have direct control of the Council's policy. As it is we have little or none, and shall, if possible, have even less over the Executive *Committee of the Council.* There is another point which I do not remember to have seen mentioned. The two representatives of companies and corporate bodies will hold the balance between the Council's nominees and the representatives of individual pharmacists. On whichever leg the boot may be placed this is intolerable.

Opium

is said to have been introduced into China by the Arabs, who are known to have traded with its southern ports as early as the ninth century. At a later period, but long before the English set foot in India, the Chinese imported opium from that country in their own junks, but not extensively, and only for legitimate medical use; and it was not until somewhat late in the seventeenth century that opium-smoking began to prevail among them. The Persians, says Mandelso, writing in 1638, "boast themselves to be the first inventors" of opium-eating, which they practise "not so much with the intention to make themselves sleep as to raise courage in themselves," specially for a particular purpose; and Sir Thomas Herbert speaks of their foot-posts being "enabled by it to run day and night without intermission."

"Pharmaceutical Formulas"

is the book to which in my later years of shop-work I have turned most frequently. One may by study and practice master the B.P. and "The Art of Dispensing" sufficiently to make actual reference rarely necessary, but the "Formulas" are so numerous and so varied in character, they cover so large a ground of possible importance, they anticipate so many unforeseen and incalculable needs which cannot be so satisfactorily, if at all, supplied elsewhere, that the book is always on the desk, and one wonders how the day's work was ever got through without it. It is no reproach to the chemist to say that the most complete master of the craft cannot possibly carry in his head a ready answer to every problem, or extemporise a thoroughly satisfactory preparation to meet every want, but it is very rarely indeed that I have failed to find what I have required in this book, though a good many of my requirements would make a West-end pharmacist stare and gasp. Your list of its chapters gives but the barest hint of its contents, and your announcement of a ninth edition would, I fancy, strike an American critic familiar with the book as too modest in tone.

Treacle

is the most interesting word of pharmaceutical import in the latest instalment of the Oxford Dictionary, a double section extending from *traik* to *Trinity.* Derived from the Greek *theriake,* through the Latin *theriaca,* its sense development in English has proceeded further than in any other language, and though now almost or entirely obsolete in its original sense it still survives dialectically in some plant-names. Its transferred use in our older writers is sufficient testimony to the reputation of the old medicinal compounds to which it was given. Thus Lydgate speaks of the name of Jesus as "holsomest tryacle" against "goostly venyms," Sir Thomas Moore of "the tryacle of holye scrypture," and Milton of "the sovran treacle of sound doctrine." Treacle, indeed, stood for medicine in general; apothecaries were called "treacle-conners," travelling quacks were "treacle-carriers." The first recorded use of the word as applied to molasses is dated 1694. It will probably be news to many of us that train oil was originally known as *train* only; the name means oil extracted or made to exude; even as late as 1806 we read of "common train (cod oil) brought from Newfoundland." Train oil is defined as "oil obtained from boiling the blubbers of whales"—and formerly of seals also. *Trehala* is from the Turkish name of cocoons of *Larinus maculatus,* known as Syrian manna; hence *trehalose,* the white crystalline sugar found in ergot. *Trigonel* (hence *trigonelline*) is of rare occurrence as a name for fœnugreek; it is due to the triangular appearance of the flowers. Compounds of *tri-* take up much in this instalment, though only a selection is given; it is rather strange that neither *trimyristin* nor *trilaurin* is noted. No explanation of *trick-madam* (Fr. *trique-madame*), an old name for stonecrop, which Lyte and Culpeper turn into *prick-madam,* is offered. *Traveller,* in the sense of commercial traveller, does not occur until 1800; the full form is still later. Gentlemen of the road will appreciate the fact that to *travel* is etymologically the same as to *travail.*

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Editorial Articles.

Preparations of Part 1 Poisons.

In the Pharmacy Act case, heard at Old Street Police Court last week, the solicitor for the defence (Mr. Cyril H. Kirby) raised an important point, which has not hitherto been discussed forensically. According to the Poisons and Pharmacy Act, 1908, "arsenic and its medicinal preparations" are poisons in the first part of the schedule, which may be sold only to persons known to the seller, and on other conditions specified in Section 17 of the 1868 Act for the more potent poisons. The seller in last week's case conformed with the law in all respects except one: he is a pharmaceutical chemist, but treated the preparation containing arsenic and other medicines as being in Part 2 of the schedule, because he regarded it as coming within the "all preparations or admixtures" paragraph at the tail of Part 2 of the schedule. The consideration arising is such as this: If a mixture is compounded and sold, such as—

Liq. arsenici hydrochlorici	...	ʒj.
Tr. ferri perchloridi	... ...	ʒiij.
Aq. chloroformi ad	... ...	℥iv.—M.

is the seller within the law by treating the mixture as a Part 2 poison? Mr. Kirby argued, in effect, that the first ingredient in the mixture is a medicinal preparation of arsenic covered by Part 1 of the schedule, but that the whole mixture, as above, is a preparation or admixture, covered by the tail paragraph of

Part 2. This point is not covered specifically by any of the High Court decisions, such as the Pharmaceutical Society *v.* Armson, for they were concerned with determining whether or not a preparation containing a substance scheduled as a poison is to be regarded as being within the schedule. In the Armson case the Court of Appeal held that a preparation of morphine had to be regarded as morphine itself, therefore qualification of the vendor was necessary. Discrimination between what is in Part 1 and what in Part 2 has not arisen in appeal cases, but we consider that it would not be difficult to construe the Armson decision to cover such a case as the arsenic one. Given a scheduled poison in a medicine, no matter how many other ingredients are in it, it is *the* poison according to the Armson decision (subject to the *de minimis* principle upheld in the Delve case). The arsenic entry in the schedule is specific—medicinal preparations are included in Part 1, and it is only when they cease to be medicinal that such preparations can be regarded as being in Part 2. Special interest was added to the case by the manner in which the defence described the custom of the trade in the matter. The defendant had sent formulæ for his own preparation (see p. 40) as well as other formulæ containing Part 1 poisons to leading pharmacists in London and Brighton. The compounded preparations were obtained without difficulty, except in a few cases where the chemists wanted the signature of the doctor to the formula. It is only fair to note that the solicitor, Mr. Kirby, based no legal argument upon the statement of facts so formulated. Obviously, the facts merely proved that the chemists who supplied the medicines to the formulæ submitted were acting within the exemption that Section 17 of the 1868 Act extends to "any article when forming part of the ingredients of any medicine dispensed by a person registered under this Act." Perhaps the trade is not uniformly well informed in regard to poisons law. Moral: When in doubt, consult the *C. & D. Diary*, in this instance p. 471 *et seq.*

"Breaking Bulk."

MR. ALFRED HIGGS's motions to be submitted to the annual meeting of the Proprietary Articles Trade Association next week in regard to breaking bulk of packets of stamped medicines and retailing in pennyworths are not based (we are informed) upon the late Mr. Worthington Evans's reply to a correspondent of THE CHEMIST AND DRUGGIST fifty years ago, but it is curious how such subjects recur generation after generation. In reprinting Mr. Evans's note under our Retrospect on June 27 we by italics emphasised the fact that it is retailing *in separate packets* unstamped that makes the sale illegal. In this connection we may recall the fact that in THE CHEMIST AND DRUGGIST of July 31, 1879, we published a letter which we had received from the Solicitor to the Board of Inland Revenue on this subject. It was in the following terms:

"All medicines which are liable to stamp-duty, and which have been sold duly stamped by the original vendor thereof, may be re-sold in smaller quantities by licensed vendors without being re-stamped. If, however, the re-sale should be made in any 'packet, box, bottle, pot, phial, or other inclosure,' such inclosure would apparently fall within the charge of stamp-duty imposed by the Act 44 George III., cap. 98, and the retailer would be strictly bound to show that the article sold by him had been previously sold to him under the proper stamp."

The principle here laid down has been repeatedly confirmed by the Revenue authorities not only to ourselves but to individual manufacturers and retailers. It applies to pills and other forms of medicines for which an inclosure is not necessary. The basic facts thus are (1) duty cannot be enforced more than once, and (2) duty is not enforceable upon articles which are not sold in an inclosure within the meaning of Schedule B of the 1804 Act imposing the rates of stamp-duty. Alpe explained that "other inclosure" (quoted in the Solicitor's letter) is:

"An inclosure *ejusdem generis* with a packet, box, bottle, pot, or phial. If the inclosure does not fall under any of those descriptions, the medicine escapes the duty. For example, it is a common practice when lozenges are sold by the ounce to wrap them in paper or put them in a paper bag; and if the paper or bag is not sealed up, or gummed, or tied with string or thread, or fastened in any other way, it is not deemed a 'packet or other inclosure,' and is not liable to duty."

This is just what the Solicitor said in 1879, and it was repeated by the Board of Inland Revenue as regards lozenges in a letter published in the *C. & D.*, December 26, 1903, p. 1056. We put Mr. Higgs's motions and the above explanations together in parallel columns:

Motions.	*Present Position.*
(*a*) That the sale of medicines subject to duty without having on each packet or other enclosure a medicine-stamp is contrary to the provisions of the Medicine Stamp-duty Act, 1812.	(*a*) The sale of dutiable pills and powders in small quantities from broken packets that had been stamped is not permitted if the sale is *in a packet or other inclosure.*
(*b*) That the concession of the Board of Customs and Excise in permitting the sale of medicines subject to duty otherwise than in strict conformity with the Act is giving an undue preference to a certain class, since like facilities are withheld from vendors who are at the same time makers of the medicines.	(*b*) Is not a concession in the direct sense of the term. Makers of medicines are permitted to sell these medicines unstamped if they are not sold in an inclosure. What the Revenue authorities have done is to inform manufacturers that they cannot permit them to break stamped packets and sell the contents in pennyworths. That is an administrative precaution rather than a disability.
(*c*) That the practice of vending medicines which have been duly stamped in smaller quantities without a stamp is illegal, besides being prejudicial to the public weal. It has been the means of affording facilities for unscrupulous vendors to substitute other medicines, thus defrauding the Revenue and the public.	(*c*) Provided that the vending of medicines in small quantities is not in a dutiable inclosure it is not illegal to sell them unstamped.

The subject has, we may add, been discussed at the Association meetings, but Mr. Higgs is the first to allege that breaking packets and re-selling is illegal. His view appears to be that the Revenue authorities are wrong in saying that a twist of paper or an unsealed envelope is not an "inclosure" within the meaning of the Acts. He is, of course, entitled to his opinion, but the enforcement of it upon others is a different matter, because there are in it almost interminable possibilities of interference—*e.g.*, the dispensing of medicines containing a proprietary preparation might be stopped.

Honey.

IT is a curious fact that in spite of many attempts the Australian Commonwealth has never been able to develop a successful trade in the export of honey to the British markets, and in particular to London, this being largely due to the taste on this side differing from that of our Australian cousins, whose honey was alleged to have a peculiar flavour and eucalyptus aroma. Whether this still persists we cannot say, as practically no supplies now come on the open market. We are reminded of these facts because New Zealand is making strenuous efforts to

develop her export trade by shipping absolutely pure honey of the finest quality and properly graded. Two weeks ago a consignment of 156 cases from Auckland, each case containing two tins of 56 lb. each, mostly sold in the London drug auction at from 44*s*. to 45*s*. per cwt. for fine white set quality, as compared with the top price of 31*s*. paid for Jamaica. Similar consignments have been sold up to 56*s*., but the average price over a series of years is about 42*s*. 6*d*. Special regulations have lately been issued regarding the grading of honey in New Zealand, and we give these below for the benefit of our Australian readers :

Shippers are asked to pack the honey in tins containing 56 lb. weight, and the tins are placed in cases, two tins to each case.

No tins showing any signs of leakage are accepted, and all honey must be granulated.

For the purposes of grading, honey is classed as white, light amber, medium amber, or dark.

Each of these four classes is graded according to the following system of pointing: Flavour, 35 points; colour, 10 points; condition, 15 points; grain, 20 points; aroma, 10 points; freedom from scum, 5 points; packing and finish, 5 points=100 points.

The standards on which the grades for each class of honey are determined are as follows: Special, 94 to 100 points; prime, 88 to 93½ points; good, 80 to 87½ points; manufacturing, 65 to 79½ points (both inclusive).

The grade is stamped on the cases, as is also a brand signifying that it is New Zealand pure honey and specifying the weight.

The grading is optional at present, but regulations making it compulsory are in course of preparation under powers conferred by the Apiaries Amendment Act passed by the Dominion Parliament last Session. It is therefore evident that shippers wish to gain the full confidence of buyers in the home markets by grading according to their requirements. The industry in New Zealand has certainly a bright future before it, but, like every other country, the output varies considerably—*e.g.*, in 1912 the exports of honey were only 55,770 lb., in consequence of a bad season, the amount shipped in 1911 being 151,691 lb. Every apiary in New Zealand (there are 11,200) is subject to inspection, and has to comply with the Apiaries Act, which is having a good effect on the stamping-out of bee-disease, from which we in this country suffer mysteriously.

The New South Wales Department of Agriculture has recently taken up the matter of export trade to London, making a special exhibit at Maitland of all the honeys mostly in demand on the London market; these included English, New Zealand, Californian, Jamaican, and various West Indian descriptions. After comparing these samples with those collected in New South Wales, the executive of the Apiarists' Association reported

"that if the samples shown were really representative of honey that was acceptable to English taste, a great mistake had been made in the past in our export trade, as, instead of the best honey having been sent to London, a second grade should have been selected. However, the samples of English and New Zealand clover honey, placed in position later, showed that there was a demand for what they considered a good honey, though at a price not nearly in proportion to the variation in quality, in their opinion. There was no comparison in quality of the New South Wales honey shown and that selected in the London market, with the exception of clover honey, and it was in future advisable, when testing the London market, to try at least some of what were considered second-grade honey, as it was possible that they might hit the public taste."

We are afraid, however, it would not be profitable to export second-grade quality of New South Wales honey unless shippers were prepared to meet the keen competition of Jamaica descriptions.

Pharmaceutical Associations Conference.

THE arrangements for the Conference of Local Association Delegates, to be held in London on July 15, are now complete, and delegates have been supplied with a copy of the agenda and other literature for use in connection with the debates. The Conference takes place in the Throne Room of the Holborn Restaurant, and the President of the Pharmaceutical Society is to take the chair at 11 A.M. There will be an interval for luncheon at 1.30 P.M., and arrangements have been made for a luncheon to be held in the same building. Among the items to be discussed is the question of electing, on a territorial basis, the seven representatives of the Associations, and a synopsis of the Nottingham scheme, Mr. Deakin's scheme, and the Society's proposals has been submitted to the delegates in a form which makes it easy to compare the relative merits of the different schemes. The resolutions to be considered by the meeting have been cleverly arranged with a view to facilitating business, and a classification with references will make it easy to discuss the various proposals dealing with chemists' agreements with Insurance Committees, the national Tariff, Drug Tariff revision, cost of prescription-checking, the mile-radius question, and other matters connected with the working of the National Insurance Act. The result of the election of the Pharmaceutical Committees and of the deputation to Mr. Masterman will be reported to the meeting, and the date for the next Conference will be fixed.

Insurance Commissioners' Report.

THIS week the second annual report of the Joint Insurance Committee has been published, but copies have not been on sale. The report deals with all matters that have come under the Commissioners' review during the year which ended on January 11. Four paragraphs are devoted to what the Commissioners in England did in regard to the appointment of Pharmaceutical Committees under Section 33 of the 1913 Act, and another paragraph is devoted to chemists' payments and revision of the Drug Tariff. None of these is critical or particularly informative. The Scottish Commissioners follow similar lines, but devote more space to the negotiations with chemists that resulted in the resolution come to by the leading panel chemists in Scotland on October 30, 1913. Reference is also made to prescription forms, dispensing by doctors, emergency drugs, and the expenditure; appendices being devoted to the amounts paid to panel chemists in each county and county borough in Scotland. The average cost of drugs prescribed per insured person varied from 7½*d*. in Argyll to 1*s*. 10¼*d*. in Shetland among the counties, and from 8½*d*. in Kilmarnock to 2*s*. 1¾*d*. in Aberdeen among the burghs. The total number of prescriptions in Scotland for the year was 2,415,191, and the total accounts paid to chemists amounted to 93,122*l*. A list is given of the numbers of chemists and doctors on the panel in various places. The report of the Commissioners for Wales gives similar information in regard to chemists' accounts, and quotes the rulings approved by the Commissioners as to the prescribing and dispensing of secret and proprietary remedies, whereby Insurance Committees are relieved of payment for such articles when prescribed by doctors and dispensed by chemists after due notice given to the contrary.

Lithium Citrate.

IN commenting upon Mr. C. A. Hill's tables on pharmaceutical chemical standards we said erroneously (*C. & D.*, July 4, p. 47) that no commercial sample of lithium citrate with so low an arsenical limit as one per million

had been found since 1908. Reference to lithii citras on page 56 shows that the arsenic was in every case well under 1 part per million, the highest recorded figure being 0.4, and over the four years reviewed 100 per cent. of samples have conformed to the limit of 2 parts per million (Committee of Reference standard). As a matter of fact, every sample conformed also to Mr. Hill's own standard of 1 part per million suggested in 1908. Mr. Hill informs us that a change in the standard from the 1908 paper to the paper appearing in the *C. & D.*, July 4, should not be construed as indicating a change in view on his part; a great majority of such alterations in the standard are due to the fact that the Committee of Reference have recommended a standard different from (more lenient than) Mr. Hill's. The recommendations of the Committee of Reference in regard to arsenic suggest that uniformity has been aimed at in making the limits in a great majority of cases either 2 or 5 parts per million.

Chemists in England and Wales.

THE Census Commissioners have issued another large Blue-book dealing with the Census of 1911 and the occupations of persons in England and Wales. Little in it is of direct interest to the drug-trade, but under "Professions" registered medical practitioners are included. In 1911, 25,048 physicians and surgeons, of whom 1,579 were retired, were in England and Wales, against 22,698 in 1901; dentists (including assistants) numbered 7,674, against 5,309 in 1901; and veterinary surgeons 2,612, or 329 fewer than in 1901. Midwives and nurses are appended to this section, but not chemists and druggists. For the last-named one has to turn to a section devoted to "dealers in various commodities." From this we find that in 1901 28,448 persons were "chemists, druggists," and 3,105 of these were females; by 1911 the total had increased to 32,241 persons, of whom 5,390 were females. The oil and colour men numbered 9,573 in 1911, compared with 8,699 in 1901. Among the commercial travellers were 3,082 travelling in chemicals, and 5,609 travelling in oils, soap, and similar articles.

Anti-cutting Agreements.

CONTRACTS in restraint of trade are void as being against public policy; but it has for many years been established beyond question that reasonable anti-cutting agreements, being merely in partial restraint of trade, are one of the exceptions to that legal principle and are enforceable at law. In a case decided by the House of Lords last week (see p. 39) the actual validity of the contract does not appear to have been seriously in dispute except in the court of first instance. The real point at issue was whether the sum of 5*l.*, mentioned in the contract, was a penalty or liquidated damages; if the former, the exact amount was not recoverable, but only so much as represented the actual loss to the Dunlop Co.; if the latter, the full amount was recoverable in respect of each breach of contract. The difference between a penalty and liquidated damages is that a penalty is merely inserted in an agreement as a deterrent from failing to perform it; while liquidated damages are a genuine pre-estimate by contracting parties of the loss likely to result from a particular breach of contract. The fixing of an amount by way of liquidated damages is appropriate to the case where damage is inevitable from failure to perform a contract and where it is impossible to forecast with accuracy what the amount of the damage will be. The fact that the House of Lords did not consider 5*l.* excessive damages, in respect of the sale of an article below the price sought to be maintained, shows clearly that they consider manufacturers are likely to sustain serious damage from the cutting of prices. In this regard the decision is particularly notable, and important to all kinds of trades.

Perfumery Materials.

An Analysis of the Constituents of 349 Perfumes.

By E. H. F. Brittain, M.P.S.

FROM time to time articles have appeared in these pages giving analysis of prescriptions with the idea of demonstrating the popularity of various drugs and galenicals. It may be of interest to many pharmacists to have a similar analysis of perfumery formulæ.

Mr. Eugène Rimmel very aptly remarks in the preface to his "Book of Perfumes" that "the recipes given in books are never those actually used," on the ground that those who have perfected the art of compounding perfumes are not likely to make their knowledge common. No doubt there is much force in this argument, but since that time, now fifty years ago, the activities of manufacturers of raw materials have widened our knowledge of the actual materials in use. Thus a collection of formulæ should show something of their application even granting the widest limits for the professional skill and *modus operandi* of the trained perfumer in the use of them. The accompanying analysis is, therefore, given for what it is worth.

The 349 formulæ were taken from well-known works on perfumery, and many of them are in actual use. Some of them would now be considered quite old-fashioned in these days of synthetics and artificial flower oils, but, on the other hand, a large proportion of the formulæ are quite modern, as shown by the very considerable use of members of these groups. In this connection it may be interesting to note that in the formulæ, as given in "Pharmaceutical Formulas" published in 1908, the use of synthetics averages about one per four formulæ, and artificial flower oils run out at about one in fifty. The present analysis shows synthetics at nearly one per formula, while flower ottos occur in four out of seven recipes, thus showing how much they are in favour at the present time. The analysis emphasises the popularity of rose, jasmin, and musk odours. The formulæ do not include any for lavender-water or eau de Cologne. The figures indicate the number of times of occurrence of each line in the 349 formulæ analysed:

Essential Oils.

Rose otto	218
Bergamot	125
Neroli	111
Geranium	81
Sandalwood	67
Cloves	54
Orris	46
Lavender	45
Bitter almonds	42
Lemon	40
Ylang-ylang	37
Patchouli	34
Vetivert	27
Lemongrass	26
Cedarwood	18
Bois de rose	10
Orange	10
Pimento	9
Cinnamon	9
Cananga	8
Nutmeg	8
Cedrat	6
Cassia	6
Linaloe	5
Citronella	4
Mace	4
Opoponax	4
Rosemary	4
Rhodium	3
Mandarin	3
Coriander	3
Birch tar	3
Rue	3
Guaiac-wood	3
Peppermint	2
Origanum	2
Caraway	2
Galangal	2
Marjoram	1
Bay laurel	1
Limetta	1
Sassafras	1
Pinus sylvestris	1
Juniper	1
Melissa	1
Cardamoms	1
Asarum	1
Angelica	1
Palmarosa	1
Ambrette-seed	1
Ginger	1
Limes	1

Natural Products and tinctures or infusions made from them.

Musk (natural)	150
Orris	85
Vanilla	80
Ambergris	69
Benzoin	67
Civet	51
Tonka	39
Storax	25
Oakmoss	19
Vert de violette	10
Balsam of tolu	8
Balsam of Peru	7
Mace	2
Labdanum	1

Pomades and Pomade-washings (also in some cases compounded perfumes counted as pomade-washings of the same odour).

Jasmin	155
Rose	120
Tuberose	84
Orange	80
Cassie	71
Violet	64
Jonquil	9
Reseda	2

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Flower Oils, Semi-artificial Ottos, and Synthetic Ottos.

Rose	58
Jasmin	37
Cassie	17
Violet	15
Tuberose	11
Muguet	10
Bouvardia	7
Orange-flower	7
Narcissus	5
Carnation	4
Sweet pea	4
Champaca	3
Lime-tree blossom	3
White geranium	3
Mimosa	2
Syringa	2
Fougère	2
Hyacinth	2

And twelve others, each only used once in the perfume of its own name.

Synthetics and Compounds isolated from essential oils—e.g., santalol.

Musk (artificial)	75
Vanillin	45
Heliotropin	41
Coumarin	32
Hyacinthin	18
Ionone	15
Aubépine	12
Benzoic acid	9
Benzyl acetate	9
Terpineol	7
Musk ambrette	7
Benzyl benzoate	6
Eugenol	5
Linalol	4
Santalol	4
Amyl salicylate	4
Methyl ionones	4
Ambre	4
Geraniol	3
Cinnamic alcohol	3
Geranyl formate	2
Iso-eugenol	2
Phenyl-ethyl-alcohol	2
Citronellyl formate	1
Myrtol	1
Yara Yara	1
Oil of mirbane	1

Sundries

(including compounded perfumes used as ingredients in other perfumes).

Ess. millefleurs	11
,, Mareschale	2
,, Jockey Club	1
,, spikenard	1
Lavender-water	3
Eau de Portugal	1
Aq. mellis	1
Aq. rosæ trip.	11
Aq. aurant. trip.	10
Cardamom-seeds	2
Nutmegs	1
Sandalwood	1
White sugar	1

Trade-marks in Siam.

UP to the present there has been no trade-mark law in Siam, but one has now been formulated, and will come into force on October 1 of this year. It defines trade-marks as follows:

A trade-mark is a mark which is applied or attached to goods, or to their coverings, packings, or wrappers, so as to distinguish them as being produced, manufactured, worked upon, imported, selected, certified, dealt with, or sold by a particular person.

A trade-mark must consist of or contain one or more of the following particulars:

(1) A name of an individual, firm, or company printed, impressed, woven, or marked in some particular and distinctive manner; or

(2) A reproduction of a signature of the individual, firm, or company applying for registration thereof as a trade-mark, or of some predecessor in his business; or

(3) A distinctive device, emblem, seal, design, pattern, brand, label, or ticket; or

(4) A distinctive combination of letters or figures; or

(5) An invented word or invented words; or

(6) A word or words having no reference to the nature or quality of the goods and not being a geographical name.

These definitions are substantially those of the United Kingdom. The law also provides that royal arms, names, monograms, effigies of reigning sovereigns, Siamese emblems and insignia, the Red or Geneva Cross (emblems or words), and things contrary to public policy or morals cannot be used. The law provides for trading in one's own name, an invented name, or the name of another (except a royal name without warrant from the King of Siam); and a person who trades under a lawful trade-name is entitled to the exclusive use of it, also a person bearing an identical name must add to it, if used, some other name or qualification, so as to prevent confusion with the trade-name of the former person. A trade-mark may be registered if the owner be a person under Siamese jurisdiction or a subject of a Government which has accepted the law, and the offices for the registration of trade-marks will be at the Ministry of Agriculture. Application has to be made in writing to the Registrar, and no application will be entertained unless the applicant has a fixed place of business in Siam. Registration is valid for twelve years, and may be renewed.

HAYTIAN HONEY AND WAX.—The exports of honey from the Republic of Hayti during 1913 were 16,379 gals. and 1,201,907 lb., against 34,320 gals. and 1,018,679 lb. in 1912 and 190,148 gals. in 1911. The exports of beeswax in 1913 were 108,133 lb., against 71,711 lb. in 1912 and 100,971 lb. in 1911.

TRADE-MARKS.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1914, p. 237.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £1) and lodged with Mr. W. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

(*From the "Trade-marks Journal," June 17, 1914.*)

"PULVTABS"; for chemicals (2). By the Anglo-American Pharmaceutical Co., Ltd., Croydon. 360,629.

"VIOLOIDS"; for fertilisers (2). By E. A. G. Turner, Bush Hill Park, Enfield. 360,963.

"ADURA"; for goods (3, 4, and 47). By G. Schicht, A.-G., Obersedlitz, Austria. 358,577/296/298.

"SYRAMP"; for a glass container and syringe (11). By John Bell & Croyden, Ltd., 50 Wigmore Street, W. 360,606.

"MAGNETONES"; for electro-magnetic appliances to wear in shoes (11). By A. Girvan, 17 Stroud Green Road, N. 360,859.

"THE BUNGALOW FOOT-WARMER DENBY STONEWARE" and device of bungalow ("Denby" disclaimed); for stoneware foot-warmers (16). By J. Bourne & Son, Denby Pottery, near Derby. 356,482.

"ADHECO"; for adhesive dry-mountant tissues, etc. (39). By the Adhesive Dry Mounting Co., Ltd., 27 Fetter Lane, E.C. 360,343.

"PAREX"; for vulcanised indiarubber sheets, etc. (40). By Anderson, Anderson & Anderson, Ltd., 35 St. Paul's Churchyard, E.C. 355,719.

"WHITEBALL"; for beverages (42). By J. A. Harriss, 200 Fifth Avenue, New York City, U.S.A. 358,309.

"MANIKIN"; for all goods (42 and 47), and for polishes, etc. (50). By Brown, Wills & Nicholson, Finewell Street, Plymouth. 359,976/7/8.

Picture of Tiptree Hall; for food-substances (42). By Wilkin & Sons, Ltd., Tiptree, Essex. 360,677.

"KEWPIE," for food-substances (42), and "MONARCH," for goods (50). By United Drug Co., Liverpool. 360,679/800.

"SCREEN" on label device; for food-substances (42). By Hodgson & Simpson, Ltd., Liverpool. 361,007.

"MOCASSIN"; for goods (47), and for perfumery, etc. (48). By C. Thomas & Bros., Ltd., Bristol. 360,474/5.

"THREE CONES," with picture of same; for goods (47), and for perfumery, etc. (48). By Hazlehurst & Sons, Ltd., Liverpool. 360,522/3.

"SANHAIR"; for a depilatory (48). By S. Matthews & Co., Ltd., 19-21 Farringdon Street, E.C. 360,651.

"STATESMEN"; for perfumery, etc. (48). By Edward Cook & Co., Ltd., Bow, London, E. 360,772.

"PO SEIN" and Burmese characters ("The Perfume Loved by the Actor"); for perfumery, etc. (48). By Yardley & Co., Ltd., Stratford, E. 360,980.

"CHASMU"; for all goods (48). By C. G. R. Eames, 29 Southampton Buildings, W.C. 361,338.

"HERO"; for polishes, etc. (50). By Blyth & Platt, Ltd., Watford. 360,928.

(*From the "Trade-marks Journal," June 24, 1914.*)

"STATIC"; for chemicals (1). By R. & G. Manning Pike, 2 Riverside, Chiswick Mall, W. 360,649.

"KEK"; for chemicals (1). By the Chemical Engineering Co., 29 Barton Arcade, Manchester. 360,802.

"SILPACO": for chemicals (1). By the Silicate Paint Co. (J. B. Orr & Co.), Ltd., Charlton, Kent. 361,238.

"NASFA," on floral label; for chemical exterminators for plant-diseases. By Amsterdamsche Superfosfaatfabriek, Amsterdam-Minervahaven, Holland. 360,997.

"DIAL-CIBA"; for all goods (3). By Society of Chemical Industry in Basle, Basle. 358,718.

"ARK," with picture of same, for medicated soap and glycerin (3), and for glycerin (42); label device, with picture of Leverville, Congo, for soap (47 and 48). By Lever Bros., Ltd., Port Sunlight. 358,869/70, 358,557/8.

"ZAXLA"; for pharmaceutical products (3) By F. B. Mastin, 7 Rue Auber, Paris. 360,674.

"PODSEN"; for medicinal chemicals (3). By Curtis & Co., 48 Baker Street, W. 360,849.

Label with words "Bisurated Magnesia," etc., and letters "T.K." in circle ("T.K." disclaimed); for a medicine (3). By Tokalon, Ltd., 212-214 Great Portland Street, W. 360,927.

"Uome" and facsimile signature "W. O. Penseney"; for medicinal chemicals (3). By W. O. Penseney, "Breakspear Arms," Brockley Road, S.E. 361,155.

"Lutosargin"; for medicinal chemicals (3). By Kalle & Co. A.G., Biebrich-on-the-Rhine. 361,252.

"Kulenol"; for all goods (3). By Squire & Sons, Ltd., 34 Nicholas Lane, E.C. 361,405.

"Diotar" and "Epiotar"; for optical instruments (8). By Carl Zeiss, Jena, Germany. 360,700/1.

"Kosma"; for eye-glasses (8). By Groos, Ltd., 22 Verulam Street, E.C. 361,197.

"Securitas"; for trusses (11). By F. D. Jones, Calle Verdi 274, Barcelona, Spain. 359,573.

"Radipad"; for a non-medicated apparatus for rheumatism and nervous complaints (11). By Radium Products Association, Ltd., 4 Redcross Street, E.C. 361,331.

"Ardensol": for dental plate-brushes, etc. (13). By H. L. Dorrell, 208 Preston Road, Brighton. 360,865.

"Parex," and letter "M" in triangle; for indiarubber bathing caps and aprons (38); "Kafna," for brushes (50). By S. Maw, Son & Sons, 7-12 Aldersgate Street, E.C. 360,968, 361,268.

Label device with Russian Arms and characters; for indiarubber and guttapercha goods (40). By Russian-American Indiarubber Co., "Treugolnik," Obwodny Kanal No. 138, St. Petersburg. 353,535/6.

"Rewabo"; for indiarubber and guttapercha goods (40). By J. G. Franklin & Sons, Ltd., Birkbeck Road, Kingsland, N.E. 361,304.

"Woodfleet"; for all goods (42). By J. & R. Adamson, 35-39 Fleet Street, Liverpool. 360,559.

"Carn Crom"; for food-substances (42). By Ledger, Sons & Co., 14 St. Mary Axe, E.C. 360,682.

"Hylactas"; for a food (42). By Haywards, 39 Leicester Square, Walsall, Staffs. 361,006.

Label device, with words "Zigona for Invalids," etc.: for an alcoholic beverage (43). By G. & W. Turner, 12 and 14 Little Underbank, Stockport. 360,392

"Demdyke"; for all goods (47). By J. E. Harrison, 13 and 15 Parliament Street, Colne, Lancs. 358,338.

"Grid" and "Revolver," with pictures of same, for goods (47); "Oil Can," with picture of same, for perfumery, etc. (48). By Tyson & Co., Ltd., 6 Blackstock Street, Liverpool. 361,001/004, 361,003.

"Urosan"; for a detergent for removing urinary deposits, etc. (47). By J. Macmillan, 118 Queen Street, Glasgow. 360,848.

Floral device, with facsimile signature "Chiozza & Turchi" and letters "C. & T." ("C.T." disclaimed); for all goods (48). By Chiozza & Turchi, Corso Giovecca 110, Pontelagoscuro, Italy. 358,872.

"Cellini" in facsimile writing; for hair-cream (48). By R. Lane, 3 and 4 Duke Street, Cardiff. 359,298.

"Epimol"; for soap and skin preparations (48). By Markhams, 7 High Street, Reigate. 360,384.

"Ardensol"; for perfumed denture-soap (48). By H. L. Dorrell, 208 Preston Road, Brighton. 360,866.

"L'Aube d'Amour," "Senteur d'Avril," "Sourire d'Ete," and "Queen of Hearts"; for perfumery, etc. (48). By Vinolia Co., Ltd., 37-38 Upper Thames Street, E.C. 360,953/4/9, 361,282.

"Swalbar"; for hair and skin preparations (48). By A. E. Barry, 24 George Street, Hull. 361,191.

Circular device, with word "Maximum" and monogram "U.D.Co." ("Maximum" disclaimed); for brushes, combs, etc. (50). By United Drug Co., 114 Oldhall Street, Liverpool. 360,680.

"Olof"; for polishes (50). By John Knight, Ltd., Silvertown, E. 360,895

West Indian Lime-juice.—Sir Hesketh Bell, Governor of the Leeward Islands, who has arrived in this country on leave, says, in the course of an interview, that the planters in Dominica, West Indies, are doing especially well. "The price of lime-juice has risen to such a figure that very large profits are being made out of the cultivation of citrus-fruits, and land is rapidly rising in value. There is still a large area of good Crown land available for settlement, and Dominica continues to be one of the most promising of our Colonies in which a young man with moderate capital may seek his fortune."

TRADE NOTES.

Santrocyl Capsules.—Messrs. Mawson & Co., Canterbury Grove, West Norwood, London, S.E., inform us that they will send a sample tin of these capsules, with literature, to any chemist who writes to them for it.

On Independence Day, July 4, Mr. Charles Brookes, Principal of the American Drug Supply Co., held a reception in the new premises, 6 Northumberland Avenue, S.W., from 2 till 8 p.m. About one hundred customers and friends called.

Drug-list.—The Alliance Drug and Chemical Co., 34 Leadenhall Street, London, E.C., send us a copy of the new edition of their price-list. It follows the lines of previous issues in that useful information is given for exporters, postage rates, and weights and measures equivalents. In addition to drugs, there are lists of lozenges, tablets, effervescent preparations, capsules, pills, druggists' sundries, concentrated mixtures, and surgical instruments, the last being an innovation.

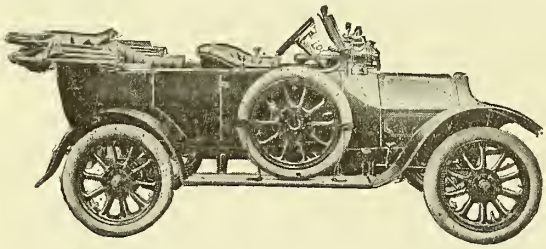
Cheap Safety Razors.—Messrs. Barclay & Sons, Ltd., 95 Farringdon Street, London, E.C., have just introduced a new nickel-plated safety razor, known as "No. 95," its construction being on similar lines to those already on the market. It is packed in a neat nickel-plated case, lined blue plush, and containing receptacles for unused and used blades, six of the former being given free with each razor. The remarkable feature of the razor is the "record" low price at which it is offered to retailers—viz., 36*s*. per dozen, less 5 per cent. Chemists should find it a ready seller at 5*s*., or even 7*s*. 6*d*., the quality being comparable with the guinea article.

Pneumosan.—This new remedy for tuberculosis is, chemically, an amyl-thiotrimethylamine compound, the important constituents being tetra-methyl-thionine hydrochloride (methylene blue) and valeric acid along with codeine phosphate. It is recommended as an injection in the early stages of tuberculosis, and reports by competent authorities on its use show that it is a remedy worthy of a place in materia medica. Pneumosan has been tested in various sanatoria in this country and abroad, and pamphlets have been issued containing, in all, a record of 150 cases. The remedy is a product of the laboratories of the Pneumosan-Chemische Fabrik, 132 Great Portland Street, London, W. It is a blue liquid, neatly put up in stoppered wide-mouthed green bottles with closely fitting cap, and containing twenty to thirty injections. The preparation will keep well for years if stored in a dark, cool place, securely stoppered. A glass syringe, specially made for use with pneumosan, is supplied in nickel pocket-cases. Chemists and others can have literature and particulars on applying to the manufacturers at the above address.

Bronamalt, the tonic nutrient which is manufactured by Messrs. Fletcher, Fletcher & Co., Ltd., London and Sydney, N.S.W., is not a new article, for they introduced it several years ago, and it has since received the unqualified approval of medical practitioners. It is an alternative to Vibrona for children and others where nutrition is defective. The basis of Bronamalt is a liquid malt-extract of high diastasic power (it easily digests fifteen times its weight of starch in an hour at a temperature of 98° F.). This is combined with the active constituents of cinchona that are contained in Vibrona, and which have made that preparation so remarkably acceptable to the medical profession, not only as a tonic for convalescents, but as a non-habit-producing preparation which is tolerated by patients to whom quinine and strychnine, even in minute doses, are veritable poisons. Bronamalt is doing similar service as an ideal tonic food for children and persons with impaired digestion. It is put up in bottles resembling the characteristic Vibrona one in colour and shape, but smaller in size. The dose is a teaspoonful or more, it is palatable, and the demand for it is steady and increasing. Messrs. Fletcher, Fletcher & Co., Ltd., Vibrona Laboratories, Thane Road, London, N., will be glad to furnish chemists who have not yet made a feature of Bronamalt with literature that they can submit

to doctors and customers, and any other particulars desired.

BELSIZE CARS.—We have previously referred to these cars as convertible or business-pleasure cars—*i.e.*, they can be used as delivery vans or as touring cars by simply placing another body on the chassis. We give an illustration of one of these cars with four-seater body, which



can be replaced by a delivery-van body on the same chassis. The Bentinck Motor Supply Co., Ltd., 13 Spring Gardens, Manchester, who make these cars, also manufacture a 3-ton motor-lorry for those who handle heavier goods, in addition to the 7-cwt. vehicle as illustrated. Both are supplied on an easy-payment scheme, and full particulars of this and other information respecting the cars will be supplied by the company to any chemist writing to them.

WESTMINSTER WISDOM.

The Week in Parliament.

THE CELLULOID BILLS.

The Committee of the House of Commons decided last week that all clauses which impose restrictions on celluloid articles should be omitted from the Glasgow Corporation and London County Council Bills.

PATHOLOGICAL LABORATORIES.

The Chancellor of the Exchequer has informed Mr. Chancellor, M.P., that 50,000*l.* out of the 250,000*l.* to be applied this year to tuberculosis, nursing, and pathological laboratories is to be expended on pathological laboratories.

EXAMINATION OF SPUTUM.

The President of the Local Government Board has informed Mr. W. Astor, M.P., that provision is made for the free examination of sputum in the tuberculosis schemes of forty-two County Councils and sixty-six County Borough Councils.

VOLUNTARY INSURANCE.

Sir Richard Cooper, M.P., on Tuesday introduced a Bill to repeal the National Insurance Acts, 1911 and 1913, and to establish a system of voluntary insurance against loss of wages through sickness and unemployment, and for other purposes relating thereto.

MEDICAL NECESSITIES.

In the House of Commons on Monday Mr. Wedgwood Benn informed Lord Ninian Crichton-Stuart that the question of adding to the list of medical necessities in the second schedule to Part I. of the National Insurance Act will be considered in connection with the revision of the regulations.

COCAINE IN MALAYA.

Mr. Harcourt, replying to Sir J. D. Rees on Tuesday, said it is the fact that recent seizures point to a certain amount of illicit importation of cocaine into Malaya and elsewhere in the East, and mentioned the Opium Convention of 1912 as providing for the control of the trade in cocaine, morphine, and their derivatives concurrently with the restriction of opium to medicinal uses.

THE SHORT-WEIGHT INQUIRY.

Sir Archibald Williamson's Select Committee which has been inquiring into the question of short weight in bread, tea, and other commodities entered on Wednesday upon the consideration of the draft report of the Chairman. The Committee adjourned until next week, when the suggestions of Sir Archibald will be further considered. It is understood that legislation is recommended as a means of overcoming the evils which have been brought to light in the course of the investigations.

THE OPIUM CONVENTION.

Sir E. Grey informed Mr. Theodore Taylor, M.P., in the House of Commons on Tuesday, that, so far as he is aware, the Opium Convention of the International Conference at the Hague has been ratified by only eight Powers—*i.e.*, China, Portugal, Siam, the United States, Guatemala, Honduras, Venezuela, and Denmark. H.M. Government have announced their intention to ratify, and the formalities of ratification are at present in process of completion. He does not know whether any other signatory Powers have announced their intention to ratify, nor can he give the reasons for the abstention of those which have declined to do so.

THE TELEPHONE.

During a debate in the House of Commons on July 3 on the defects of the telephone system the Postmaster-General said the Post Office has introduced a check by meter which has yielded very satisfactory experimental results, but it did not follow that the use of a meter will make the user's financial position any different. The meter will probably reveal to the user an unexpected drain on his limited calls, and that there was a certain amount of domestic leakage with which he was not fully acquainted before. The user would still have to pay more than he wanted to pay, and would not be able to escape the accurate registration by meter.

PATENT-MEDICINE INQUIRY.

Our Parliamentary correspondent is informed that, after almost interminable delay, Sir Henry Norman, M.P., the Chairman of the Select Committee on Patent and Proprietary Medicines, has summoned meetings for Tuesday and Wednesday in next week. The Committee, it will be remembered, concluded the taking of evidence last summer, and since then has been awaiting the presentation of the draft report of the Chairman. In justice to Sir Henry it may be stated that he has been busily preoccupied in the intervening period with another inquiry connected with wireless telegraphy. It is understood that the draft report of the Chairman will be in the possession of members on Friday of the present week. This, it is believed, as has already been stated in the *C. & D.*, will recommend the prohibition of "cures" for cancer and consumption, and advocate a much stricter control over the sale of remedies for female ailments and the total suppression of the public supply of abortefacients. The question of the publication of formulæ will also, it is understood, receive special attention, and no surprise would be felt if the creation of a new central body—or, at any rate, a more systematic administration of the regulations affecting the sale and advertising of patent medicines—were recommended.

DEED OF ARRANGEMENT.

Lowe, Sydney H., 90 Upper Kent Street, Leicester, Pharmacy Proprietor and Dental Operator.—Trustee, S. F. Aspell, 3 Wellford Road, Leicester, C.A. Dated, June 24; filed, June 30. Secured creditors, 48*l.*; liabilities unsecured, 100*l.*; estimated net assets, 51*l.* The creditors include: Brett & Co. (5*l.*); E. H. Butler & Son (8*l.*); A. H. Cox & Co., Ltd. (4*l.*); Eucryl, Ltd. (6*l.*); C. W. Johnson & Co. (3*l.*); Virol, Ltd. (5*l.*).

THE SOUTH-EAST LONDON PHARMACISTS' ASSOCIATION had its annual meeting on Thursday, June 25, and we received the official report on Thursday, July 9, just in time to mention that the following officers were unanimously re-elected: *President*, Mr. J. Y. Fairweather; *Vice-Presidents*, Messrs. Sayers and Wing; *Hon. Secretary*, Mr. E. G. Price; *Financial and Social Secretary*, Mr. W. T. Tucker; *Hon. Treasurer*, Mr. W. Ralph; *Council*, Messrs. Milner, Curnow, Happold, Tugwell, Brooks, Goldthorpe, Wing, Harris, Tucker, Tocher, Siddle, J. W. Green, Lockyer, Fairweather, Sayers, Price, and Ralph.

Insurance Act Dispensing.

A Weekly Record of events and decisions concerning Chemists' interests in Medical Benefit administration and practice.

Art and Practice of Prescription-Checking.

By an Official Checker.

In pharmaceutical circles the two topics most in evidence at the moment are "discounting" and "checking," and anyone who knows has not to listen very long before arriving at the conclusion that the majority of those who speak so glibly of checking prescriptions have not a thorough knowledge of the subject, therefore mention of a few of its features may help to "put them wise," to use an Americanism. To begin with, there is "checking" and there is "scrutiny," and these are by no means the same thing.

A contract exists between "A," the Insurance Committee, and "B," the chemist, but it is peculiar inasmuch as the contractor "B" on the behalf of "A" undertakes to supply to "C," the insured person, at agreed prices, goods to be ordered by "D," the doctor, also a contractor with "A," the amount of the goods that may be ordered by "D" being unlimited, but the amount to be paid for them being limited to "X," which "A" says should be sufficient and, in the hope of inducing "D" to order frugally, promises him 25 per cent. of "X," or as much of it as may be unabsorbed by "B's" account.

Truly an ingenious arrangement, but containing the makings of a smile.

"Scrutiny" is the exercise of the power granted to "B" to examine the accounts for the purpose of protecting himself against the possible extravagance of "D," who has a similar power of scrutiny to protect his 25 per cent. of "X." Now, seeing that the accounts of "A" have to pass a Government auditor, it may be assumed that "D," or the Panel Committee which represents him, would run little or no risk by waiving the right of scrutiny. On the other hand, "B," or the Pharmaceutical Committee which represents him, may find it very necessary to exercise the right, as it is the only way to protect himself against the possibility of his account not being paid in full, and in the cases where this has happened, it has been useless to approach the Committee or the Commissioners until this scrutiny has been made, and it has been ascertained if the deficiency has been caused by excessive ordering on the part of the doctor, and if so, to what extent.

"Checking" is the examination of the account of the creditor "B" by the debtor "A" to see that it is in accordance with the terms of the contract between the two parties. The objects of checking are to ascertain:

That the amount paid to each chemist shall be correct.

That it shall be paid only in respect of permissible goods.

The scope of checking is to determine that prescriptions when received from the chemist shall be checked against the account which accompanies them in order to see that—

The number of each value is correct.

The amount of each value is correctly extended.

The total number of prescriptions is correct.

The total value of prescriptions is correct.

Then checked by pharmacists to see—

That each ingredient is correctly priced according to the Tariff.

That appliances outside the schedule, and foods and other preparations excluded by regulations, are rejected.

That each prescription is properly chargeable to that Insurance Committee.

Prescriptions on the forms of other Committees are rejected if the doctor is not on that panel, or the patient not on that doctor's list for that area.

That prescriptions chargeable to Sanatorium Fund are not charged against Drug Fund.

That the quantities prescribed are not excessive or prescribed too frequently, or articles ordered bearing a price inflated by reason of proprietary or monopoly rights when an equivalent is on the Tariff.

That prescriptions for "travellers" and "temporary residents" are referred back to come in on separate accounts.

Also that the contractor is on the panel for that area, and, if so, whether under Form 16 or Form 17; and that the conditions of his agreement are complied with.

Sanatorium prescriptions and doctors' capitation dispensing are treated in the same way.

Prescriptions which are in order are dated and stamped "Passed for Payment." Those not in order are dated and stamped "Returned for reason stated," and returned at once to the chemist, who, should he agree with the corrections, returns them with his next month's account. Should he not agree, they can be submitted to the Pharmaceutical Committee, who meet monthly, whose decision is invariably accepted.

The scope of checking here outlined might be considerably enlarged—say, for instance, to see if each patient is or is not on some doctor's list for capitation dispensing, or is or is not entitled to Medical Benefit, or verify each address, and so on, but it is questionable if any useful purpose would be served or the enormous expense justified.

A recent proposal to establish a central checking department to handle the prescriptions of all the Insurance areas in the county of Lancashire appeared to be made chiefly with the object of protecting the Drug Fund against the supposed extravagance of the panel practitioners.

As reported in the *C. & D.*, this scheme, although at first glance attractive, failed to secure support, many Insurance Committees having already set up machinery which is giving satisfactory results, and it became clear that the methods of the checkers of taking out all abnormal prescriptions, or cases where practitioners appear to be ordering extravagantly, either in character or quantity, and submitting these to the Pharmaceutical Committee, put into operation Reg. 40 (1) and (2), as well as Reg. 39 (2), and both Pharmaceutical and Panel Committees are placed in a position to accept the accounts without a detailed examination of the whole of the prescriptions and without extra expense. The Insurance Commissioners have stated that "the final responsibility for guarding against improper disbursements from the Drug Fund rests with the Insurance Committee," and that the cost must be wholly borne by that body failing any agreement with the Panel and Pharmaceutical Committees. Should the Pharmaceutical and Panel Committees undertake a scrutiny it would be at their own expense, and where this has been done the amounts which have been successfully surcharged against the doctors have been so small that it is certain that extravagance is not the cause of "discounting," Manchester, of course, excepted. What the cause really is cannot yet be precisely stated, but an inquiry made by the Secretary of the Lancashire County Pharmaceutical Committee showed that opinion is general that the large proportion of female labour and consequent higher proportion of sickness is the chief reason. Influenza and patients taking medicine longer than necessary, also malingering, were cited as contributory. Separate establishments set up for collectively checking large numbers of prescriptions from different areas may have good points, but the advantage of the Insurance Committee's clerical and Treasurer's staff working in close co-operation with the chemist checkers is that the work is quickly and economically carried on, because—

Prescriptions for checking are handed to the chemists' department daily.

Rejected prescriptions are returned to the panel chemist daily, so obviating repetition of error in following month's account.

The Treasurer's staff is able to follow close behind the chemist checkers in preparing panel chemists' monthly account letters, summary files, and remittances, ensuring prompt monthly payments and evenness of work throughout the month.

Correspondence and telephonic calls are dealt with on the spot and in consultation with chemist checkers when technical points are raised.

Doubtful prescriptions are dealt with immediately, as doctors' panel-lists, dispensing-lists, and all official records are at hand for reference; these, by reason of deaths, removals, etc., being altered from day to day.

STATISTICS.

At present the figures required by the Commissioners appear to be:

Number of insured persons in area.

Number of prescriptions for the year.

Average cost of each prescription.
Average number of prescriptions for each person.
Cost of drugs, etc., per person.

But it appears probable that Insurance Committees, certainly those whose Drug Fund is insufficient, may need more, such as—

Each chemist's average price per prescription.
Each doctor's average price per prescription.
Each doctor's average cost per person.
Each doctor's average number of prescriptions per person.
Perhaps also the cost per person treated.

These figures are useful, if not necessary, in locating extravagance, and are easily obtained by getting the chemist to render his account classified in doctors' order—that is, a separate account is made out for all the prescriptions issued by each doctor, and all the doctors then summarised on a separate form. This method is now in use in several places, and the results are both useful and interesting. Quoting from the figures of a large county borough with over 50,000 insured persons, about fifty doctors, and 200,000 prescriptions:

Doctors' highest average script was 1*s.* 2½*d.*; lowest, a fraction over 4*d.*

Doctors' average number of prescriptions per person on list: highest, 8; lowest, 0.66.

Average cost of drugs per person on list: highest, 9*s.* 4*d.*; lowest, 3½*d.*

It is obvious that such statistics as the above will be of vast utility to the Panel Committees, enabling them to select and examine such accounts as exceed the average and where necessary exert their influence to promote economy. It is probable that in this direction lies the best course of securing good expenditure of the Drug Fund. (256/50.)

Reports from Local Centres.

With special reference to the supply of medicines and appliances. See also Association Affairs.

ENGLAND.

Berks.—Although the Panel Committee have objected to a grant to the Pharmaceutical Committee for administrative expenses, the Insurance Committee resolved on June 27: "That, subject to the concurrence of the Panel Committee and to the consent of the Commissioners, the sum of 125*l.* per annum be deducted from the Drug Fund by the Insurance Committee and allotted to and for the administrative expenses of the Pharmaceutical Committee." Mr. M. C. Rock (Secretary of the Pharmaceutical Committee) was co-opted a member of the Finance and General Purposes Sub-Committee, and Mr. H. R. Metcalf and Mr. Rock have been appointed pharmaceutical representatives on the Joint Services Sub-Committee. This Committee had recommended that chemists be advised to communicate with the doctor to ascertain if he has any objection to the substitution of the B.P.C. equivalent of any proprietary preparation prescribed, and to get the prescription altered accordingly; but instead of this the Insurance Committee adopted the following amendment: "That, subject to the approval of the Commissioners, when a proprietary article is prescribed by a doctor the chemist shall in the first place supply it, but is recommended to afterwards communicate with the doctor, with a view to ascertaining if he has any objection to the supplying of the B.P.C. equivalent, and that the Panel Committee be requested to advise medical men to prescribe the B.P.C. equivalent." Panel practitioners who dispense in rural areas are to be paid 75 per cent. of the capitation-fee in respect of dispensing for the two quarters ended July 11.

Bristol.—The Insurance Committee agreed on July 6 to ask the Commissioners for authority to pay the Pharmaceutical Committee 10*l.* towards administrative expenses. The Panel Committee are making a levy, so that their Secretary may be paid not more than 250*l.* a year. The correct number of insured persons in the area is 113,725, not 120,423 as anticipated.

Burnley.—The Insurance Committee met on July 2, and decided that it would be premature, so far as Burnley is concerned, to resume the conference held in March (*C. & D.*, March 14, p. 92) until all Lancashire Insurance Committees put into operation Clause 46 of the Medical Benefit Regulations, 1912. The Commissioners wrote pointing out that the total sum advanced to chemists should not exceed 90 per cent. of the estimated available sum for the period; but as the Committee had already agreed to 95-per-cent. payments to doctors and chemists, it was decided to ask the Commissioners to sanction 95-per-cent. advances to chemists. The special Sub-Committee appointed to consider the best means of checking prescriptions and chemists' accounts and of dealing with excessive prescribing recommended the appointment of a dispenser or someone able to read prescriptions to do the necessary checking at 7*s.* 6*d.* per 1,000 prescriptions (or 2*s.* 6*d.* less than is charged in London). Doctors and chemists have agreed to contribute one-third each of the cost, and the work is to be done month by month, and not allowed to accumulate as in the past.

Canterbury. — The Finance Sub-Committee reported to the Insurance Committee on June 30 that the money available for final payments to chemists for 1913 represented, with the advances previously made, payment of 87 per cent. of the amounts of their accounts. The chemists, having had an opportunity of considering matters, wrote to the effect that they could not accept this payment as final, but would expect the balance to be brought forward into the 1914 account. The Chairman expressed his sympathy with the chemists, but thought that, in view of this letter, they could not pass payment of the accounts, as they had no power to carry forward a balance into this year's account. Dr. Bremmer also expressed sympathy with the chemists, and suggested that, as it appeared that the drug bill had been increased by the ordering of foodstuffs for tuberculous patients, in the event of a person being subsequently accepted as a tuberculosis patient by the Committee, the accounts of articles supplied to such person by the chemists before he is so accepted should be made retrospective, so that they might be paid by the Sanatorium Committee. The Chairman finally moved: "That, in consequence of the letter received from the Chemists' Association, this Committee do not pay their accounts until the whole matter has been placed before the Commissioners," and this was agreed to. The Clerk reported that the number of prescriptions for the six months ended January 11 was 22,402, average per person 4.5, and average price 7.35*d.* The number of persons on the register on January 11, 1914, was 6,684, and the number on doctors' lists at the same date 4,419. The expenditure for the six months included 591*l.* paid to chemists and 1,923*l.* to doctors.

Coventry.—Colonel W. F. Wyley has resigned the chairmanship of the Coventry Insurance Committee.

Gloucester.—At a meeting of the City Insurance Committee on June 29 it was reported that the Finance Sub-Committee had instructed the Clerk to write to the Commissioners respecting the unpaid balance due to chemists, and pressing for an answer as to when they may expect a final settlement.

Halifax.—The Medical Benefit Sub-Committee have recommended the Insurance Committee to make a ruling that a chemist may make a charge for duplicating medicine when the insured person breaks the bottle, on the ground that he should pay for his own carelessness. The opinion is expressed that it is unfair that in such cases an already insolvent Drug Fund should have charged against it the value of a second bottle of medicine. The Insurance Committee agreed on July 3 that the details of chemists' and doctors' accounts should not be published, merely the totals. It was reported that panel chemists had received for 1913 4,379*l.*, or 409*l.* less than the amount they were entitled to.

Hull.—The Insurance Committee were informed by the Commissioners on June 30 that, after allowing for payment in full of the chemists' accounts for 1913, there remained out of the Drug and Drug Suspense Funds a balance of 303*l.* 15*s.* 8*d.*, which is to be added to the sum payable to the medical practitioners, making it 30,659*l.* 5*s.* 6*d.* Of this 29,898*l.* 1*s.* 10*d.* has already been paid, and the balance of 761*l.* 3*s.* 8*d.* will be paid forthwith.

Liverpool.—Messrs. J. Bain, A. Steen Barr, W. A. Clubb, D. H. Evans, J. L. Hirst, Martin S. Hughes, C. E. Jones, R. E. Lloyd, Harold H. Marsden, L. M. Parry, Ernest Prebble, and G. Rowe Tharratt, chemists, have been nominated to fill the twelve vacancies on the local Pharmaceutical Committee.

London.—Mr. J. Keall presided at a meeting of the Pharmaceutical Committee on July 7. The matter of hours (*C. & D.*, July 4, p. 57) again came up, and it was agreed that the decision of the Insurance Committee to insert in the next panel list particulars of panel chemists' hours of business will provide an adequate pharmaceutical service at all reasonable times in every district within the county of London. Letters from the Drugs and Appliances Sub-Committee were left in the hands of the pharmaceutical representatives. On the report of the representatives of the Panel and Pharmaceutical Committees it was agreed *pro tem.* to recommend to the respective Committees:

(1) The practitioner should be allowed to order drugs and appliances in the form "rep mist.," provided that the original

prescription was supplied during the same calendar month and the date of the prescription is given.

(2) The chemist should be permitted to fasten such prescription-forms to the original prescriptions to which they refer, and should not be required to write out the ingredients upon the latter prescription-forms.

(3) The Insurance Committee should be willing to accept these "rep. mist." prescriptions as vouchers for payment, inasmuch as evidence is submitted as to the cost thereof.

Some routine business was transacted, and, this being the last meeting of the Committee, Mr. Fairweather moved and Mr. Hayes seconded a hearty vote of thanks to the Chairman for the able manner in which he had conducted the business of the Committee. The vote was carried with acclamation, and Mr. Keall replied.

Nottingham.—Mr. F. Ross Sergeant has been re-elected pharmaceutical representative on the Insurance Committee.

Smethwick.—The Insurance Committee have passed payment to chemists of 520*l.*, which represents 90 per cent. of the sum estimated to be available for the quarter. It was decided that, if funds permit, 95 per cent. of the amounts of chemists' accounts would be paid.

Staffordshire.—It was reported at the Insurance Committee meeting on July 4 that there was a shortage on the Drug Fund, due solely to an excessive number of prescriptions.

Yorkshire (West Riding).—Analysis of samples of cod-liver oil emulsion supplied by a panel chemist showed an oil-content of 33, 39, and 42 per cent., against 50 per cent. required by the B.P. Codex as specified in the Tariff. The matter came before the Pharmaceutical Service Sub-Committee. It was ascertained that the chemist was in the service of an unqualified person, and that since the report came up he had left his employer. The latter attended the meeting of the Sub-Committee, and stated that he is negotiating the sale of the business to a company. The Sub-Committee agreed to the following recommendations:

(1) That it be represented to the Insurance Commissioners that in the opinion of this Committee the continuance of the chemist on the list will be prejudicial to the efficiency of the service of insured persons. (2) That inquiry be made of the Commissioners whether the Committee will be deprived of any sum otherwise payable towards the cost of providing Medical Benefit. (3) That pending the Commissioners' reply no further payment under the agreement be made. (4) That in any event the analyst's fees, amounting to 18*s.*, be deducted from any sum which may be payable to the contractor, as well as the Tariff price, 3*s.*, of the medicines the subject of this complaint.

SCOTLAND.

Dundee.—The Scottish Insurance Commissioners have informed the Clerk of the Insurance Committee that saccharin is not a drug or medicine within the meaning of the 1911 Act, and should not be prescribed by a panel practitioner and need not be supplied by a panel chemist. The accounts for drugs supplied during the month ended June 11 have been paid to the extent of 90 per cent.

Edinburgh.—Panel chemists are informed that accounts for the period from June 15 to July 11 should be sent in not later than July 15, and that accounts should thereafter be rendered as at 11th of each month up till November 11, and from November 12 till December 31, 1914, the completion of the current medical year.

Glasgow. — The minutes of the Burgh Insurance Committee show that the average number of insured persons on panel doctors' lists last year was 895 per doctor. One had 4,468, with a payment of 1,625*l.* 8*s.* 1*d.*; another with 3,984 received 1,453*l.* 8*s.* 8*d.*; while four practitioners, with an average of 3,275, had 1,189*l.* 8*s.* 1*d.*, leaving the remaining 368 with an average of 850. The total sum paid to the practitioners for the year was 121,524*l.* 5*s.* 9*d.*

Lanarkshire.—A meeting of county panel chemists was held in Motherwell on July 3, Mr. John Hinksman (Carluke) presiding, to discuss grievances and determine what steps should be taken to bring about an improvement in the treatment of panel chemists. It was resolved to support the efforts being made by the Pharmaceutical Standing Committee (Scotland) for improved conditions, and to demand the deletion from all future agreements of the discounting clause.

Wigtownshire.—At last month's meeting of the Insurance Committee, held at Newton Stewart, it was decided, on the suggestion of the Pharmaceutical Committee, to notify all panel doctors and chemists "that no repeat prescriptions should be written, and that chemists have the Committee's authority to refuse any such prescription." The Clerk reported that the chemists' accounts for the year 1913 amounted to 293*l.*, made up as follows: First quarter, 67*l.*; second quarter, 75*l.*; third quarter, 67*l.*; and fourth quarter, 84*l.* The Drug Fund, including the Drug Suspense Fund, would next year amount to 322*l.* (approximately), but chemists' accounts for the quarter ended April 11, 1914, amounted to 103*l.* This was due to an increase in the number of prescriptions and to the use of more expensive drugs. It was decided to pay 75 per cent. of the amounts of the chemists' accounts, and the question of the prescribing of expensive drugs was remitted for consideration to the Medical and Pharmaceutical Sub-Committees. The Clerk reported that Messrs. McKinnon, Kerr, and Dunn had been appointed to the Pharmaceutical Service Sub-Committee.

WALES.

The Executive of the Association of Welsh Insurance Committees have decided to establish a central office for the checking and analysis of the prescriptions for the Welsh Committees, instead of having the work done in London as at present.

Denbighshire.—The Insurance Committee were informed on July 1 that 30,664 prescriptions had been dispensed during the first quarter of 1914, at an average cost of 8*d.*—an increase of 6,523 over the number for the previous quarter. There was a deficit of 245*l.* on the Drug Fund, so that only 75 per cent. of the chemists' claims could be paid. Dr. Moss stated that it was found, on analysis of each doctor's prescriptions, that the lowest average cost was 5.75*d.* and the highest 11.75*d.*, while the lowest average per insured person worked out at 10*d.* and the highest 7*s.* 4*d.* It was decided to ask the doctors to make every reasonable effort towards economy.

Newport (Mon.).—At the meeting of the Insurance Committee last week it was resolved that 80 per cent. of the surplus medical funds should be divided among the panel doctors. There had been no cases of over-prescribing. The amount paid to the doctors for the year ended January 1914 was 7,353*l.*, and to chemists 2,317*l.*, the average cost of prescriptions being 7*d.* The Chairman stated that the approximate amount available for doctors in respect of insured persons was estimated at 900*l.* or 1,000*l.* There are twenty-two doctors and nineteen chemists on the panels.

ASSOCIATION AFFAIRS.

Cardiff.—A meeting of the Cardiff Pharmaceutical Association was held at the Angel Hotel on July 2, Mr. W. R. Williams in the chair. There were fifteen other members present. A letter from the Cardiff Chamber of Trade urging the Association to support a general order under the Shops Act closing all shops in the city on the same day. The meeting decided in favour of the view expressed in the letter, and it was suggested that the time of closing on days other than Wednesday be 8 P.M.; Saturday, 10 P.M. It was also suggested that the Chamber should take into consideration the question of closing for the dinner-hour. The meeting then discussed the appointment of a successor to Mr. Hagon on the Insurance Committee, and eventually Mr. J. A. Jones agreed to accept the position. The members of the Pharmaceutical Committee were re-nominated. The name of Mr. S. B. Eason was not put forward, so that he can be appointed to perform the duties of Secretary with remuneration. Mr. Hagon mentioned that the local doctors desire a new local Pharmacopœia, as they consider that the drug-prices at present charged are too high. Mr. Furnival inquired regarding last year's deficit, and Mr. Hagon said that this is one of the questions which would be placed before Mr. Masterman by the deputation which is to wait on him shortly.

Grimsby.—A meeting of the Grimsby Pharmacists' Association was held on July 2. Mr. T. D. Sneath (President) was in the chair, and there were also present eight members and Mr. C. H. Ashton (Hon. Secretary). A vote of sympathy was passed with the family of the late Sir George Doughty, M.P., whose services in Parliament had been used by the Association. The voting-papers for the Pharmaceutical Committee were considered, there being ten nominations for eight vacancies. It was decided to support the candidature of the President, Vice-President, and those members of the old Committee who have been nominated. The following suggestions regarding the new Tariff were agreed to:

(1) The dispensing-fees to be increased from 2*d.* and 3*d.* to 3*d.* and 4*d.* The fees for pills, powders, etc., to be 3*d.* per doz., regardless of quantity.

(2) No prescription should be charged less than 2*d.*

(3) Where no duplicate or full copy is given a copying-fee to be allowed.

(4) Owing to the advent of a new Pharmacopœia the use of distilled water should be universal, regardless of district.

It was also suggested that the discounting clause should be deleted from the new agreements.

SUMMER OUTINGS.

Down the Clyde.

The Glasgow Athletic Club's evening cruise took place on the evening of June 30. Assembling at Queen Street Station in rather adverse weather, a company of 400 entrained for Craigendoran, where the steamer *Waverley* was waiting to convey the party up the Kyles of Bute. Happily, before the steamer was reached the rain ceased, and afterwards the weather conditions were satisfactory. Proceeding up the Kyles between splendidly wooded hills until just below Collentrae, where the steamer turned, the company had every opportunity of enjoying the beautiful scenery, and on the homeward journey they observed one of those superb sunsets for which the West is famous. A dance was organised by the younger members of the party, and just before reaching Craigendoran Mr. Rankin delighted the company by his excellent rendering of "Thora." Glasgow was reached about 10.30, and all agreed that the cruise had been a great success. Among those present were Messrs. Gilmour, Kitchin, McVittae, and McMillan. The wholesale houses were well represented.

Round the Ards Peninsula.

The annual outing of the Chemists' and Druggists' Society of Ireland took place on July 1, and as it had been fixed on the trade's half-holiday there was a large attendance of members and friends. Those present included Messrs. W. J. Gibson (President), W. J. Rankin, R. Cambridge, J.P., John Frackelton, W. E. Wilson, W. Martin, R. A. Jamison, S. McDowell, Wm. Haslett, J. Moffett, S. Nevin, A. R. Hogg, J. Macauley, J. Gray, D. Manson, S. Stevenson, S. Stewart, D. O. Perry, H. Roberts, jun., J. Frackelton, jun., A. H. S. Davis, and F. Storey. The excursion took the form of a drive round the Ards Peninsula. Motor *chars-à-bancs* from Bangor were provided, and the entire journey passed off without a hitch. The outward route was *viâ* Newtownards, Greyabbey (where the Abbey was visited), Kircubbin, and Portaferry (where the Castle was inspected). On the homeward run tea was partaken of at Ballywalter, after which Mr. W. J. Gibson congratulated the members on such a large turn-out and on the delightful excursion they had had. Mr. W. J. Rankin, who followed, referred to the efforts of Messrs. Wilson, Frackelton, and Martin, which had made the afternoon so successful. Mr. Robert Cambridge, J.P., moved a vote of thanks to the Social Committee, coupling with it the name of Mr. W. E. Wilson, the Hon. Treasurer and Hon. Secretary, and Mr. Wilson replied on behalf of the committee. The return journey was made *viâ* Millisle, Donaghadee, and Bangor, Belfast being reached shortly after ten o'clock. The weather was delightfully fine. The total distance covered during the day was seventy miles.

A Sporting Day.

The sixth of the series of annual outings and sports of the Bethnal Green and Wigmore Street employés of Messrs. Allen & Hanburys, Ltd., was held in the lovely grounds of the Crown Hotel, Broxbourne, on July 4. A party numbering just over a hundred, including Messrs. A. J. Rickford, E. Brindley Grice, and Harry Martin, of the representative staff, left Liverpool Street Station at 11 A.M., and the weather, although cloudy in the early part of the day, was all that could be desired in the afternoon and evening. Under the efficient superintendence of the officials, the various events of an interesting programme were run off in fine style with the following results:

100 Yards Handicap.—1, C. Jones; 2, S. Hibbert; 3, W. Stokes.

80 Yards Egg-and-Spoon Race (Ladies).—1, M. Riches; 2, V. Dobbinson; 3, R. Anderson.

220 Yards Scratch Race.—1, W. T. Hammond; 2, H. Stannard; 3, S. A. Mayhew.

80 Yards Level Race (Ladies).—1, R. Anderson; 2, A. Wessendorf; 3, L. Butcher.

One Mile Relay Race.—Won by Laboratory team—S. Hibbert, W. T. Hammond, H. R. Steel, and C. Jones.

400 Yards Flag Race (Ladies).—Won by "Green" team—Misses A. Wessendorf, M. Riches, L. Butcher, E. Farnham, and E. N. Orchard.

440 Yards Comic-dress Race.—1, W. Hayward; 2, W. J. Adams; 3, J. Mace.

80 Yards Skipping-rope Race (Ladies).—1, A. Wessendorf; 2, M. Riches; 3, L. Butcher.

High Jump.—1, W. J. Stokes (4 ft. 8 in.); 2, W. T. Hammond (4 ft. 7 in.); 3, W. J. Adams (4 ft. 6 in.).

20 Yards Potato Race.—1, A. Wessendorf; 2, L. Butcher; 3, E. Horton.

The events which caused the most excitement were the 100 yards handicap, the 80 yards level race (ladies), and the one-mile relay race; the second of these was a particularly good race, the judges' task being no easy one. The 440 yards comic-dress race was the cause of great hilarity and amusement. Messrs. A. J. Rickford, E. Brindley Grice, and E. Wessendorf were the judges, and Mr. A. Byron acted as starter and handicapper. At the close of the sports programme the prizes were presented on the field, Mr. A. J. Rickford, in the unavoidable absence of Mrs. Reginald J. Hanbury, handing the very handsome trophies to the successful competitors, with a few words of congratulation to each. A pleasing ceremony at this stage was the presentation by Mr. Rickford, on behalf of those present, of a handsome gift to Mr. A. V. Crossman, the energetic Secretary of the outing, as a recognition of his valuable services in connection with the arrangements. Mr. and Mrs. Reginald J. Hanbury, Mr. F. Capel Hanbury with Master John Hanbury, and Mr. and Mrs. King visited the field as the party gathered for tea, and expressed their pleasure at the success of the outing. Tea was served soon after 5 P.M. The excellent arrangements were in the capable hands of Messrs. Lucioni and A. V. Crossman.

Chemists' Associations.

The Oldham Pharmaceutical Association held their annual picnic on July 7, the rendezvous chosen being Yorns Hill, Greenfield. The party set out from Oldham at 2.5 P.M., and, leaving the train at Greenfield, commenced the climb towards the famous "Pots and Pans Hill," on the side of which a very enjoyable time was spent. A cricket-match was played with enthusiasm between chosen sides, those not partaking in the game meanwhile enjoying the scenery, after which tea was appreciated by all. The outing was a great success, and hopes were expressed that it will be repeated.

The members and friends of the Midland Pharmaceutical Association to the number of about seventy took part in an excursion to Bidford on July 1. When the party left Birmingham at two o'clock the sun was shining with midsummer strength, and all looked bright and fair for a pleasant outing. The journey to Salford Priors was made in reserved saloon carriages, then by steamer along a beautiful stretch of the Avon to Bidford. Unfortunately, a thunderstorm broke, and rain fell with such persistent steadiness that the trippers could not venture outside the hotel. Some soothing compensation was provided in the discovery of "hidden talent" among the party. Messrs. Colebourne and Izon told stories, Messrs. Smith and Buckingham recited, and Miss Burton sang delightfully. The work of the Secretary (Mr. F. Smith) in arranging the picnic was recognised by a vote of thanks proposed by Mr. Jas. Radford (the President), and an interval was pleasantly filled in by a presentation of a silver tray and silver gravy-dish to Mr. H. Critchlow and Mrs. Critchlow in recognition of Mr. Critchlow's work as Secretary. The gifts were handed over by the President, and suitably acknowledged by Mr. Critchlow.

The annual picnic of the Nottingham Pharmaceutical Association took place on July 2 to Belvoir Castle. The main body left Nottingham at 2 P.M. in motor *chars-à-bancs*, and arrived at the Peacock Hotel outside the gates of Belvoir shortly after three o'clock; others made the journey by motor-car, cycle and side-car, train, and on foot. During the afternoon a large detachment were conducted over the castle and were delighted. Others spent a most agreeable time wandering in the grounds, the Duchess's Garden and Frog's Hollow attracting the greater number; in the latter was to be seen a tree which had been struck by lightning the night before. The tea was served in a marquee in the grounds of the Peacock Hotel, the record number of sixty-three doing it ample justice. At the close Alderman S. Cook proposed a vote of thanks to the committee who had engineered such a pleasant function. The early evening was spent in inspecting the Castle kennels. Shortly before eight the party began to gather for the return journey, which was accomplished without untoward event, thus concluding what was, according to the general opinion, the most enjoyable outing the Association ever had.

From Far and Near.

The warehouse and counting-house staffs of Messrs. Henry Hodder & Co., Ltd., Bristol, have had an enjoyable outing to Cheddar and Wells since our last issue. Mr. R. M. Mudie presided at tea.

The employés of Wm. Davidson, Ltd., Aberdeen, and their friends to the number of seventy, had an outing to Newtonhill on July 4. Sports were held during the afternoon, and

at tea in the Newton Arms Hotel Mr. F. Milne welcomed all and presented the prizes to the successful competitors.

THE annual summer outing of the representatives of Mr. P. H. Galloway, wholesale chemist and druggist, of Walworth Road, London, S.E., took place on July 4 to Margate, the journey being made by rail and boat. On the return journey by the *Golden Eagle* a concert was held, Mr. Robert Low being congratulated on his capital recitations. A vote of thanks was accorded to Mr. Clark and Mr. Beavis for the way in which the arrangements for the day had been carried out.

THE staff of Messrs. Evans, Gadd & Co., Ltd., had their annual outing on July 4, when a large party were driven to Sidmouth, accompanied by Mr. and Mrs. Wippell Gadd, the Misses Gadd, Mr. W. J. Wippell, and Mr. Sydney C. Gadd. Ladrum Bay was visited *en route*, and the company had a very enjoyable time, the weather also being favourable. Dinner was provided at the London Hotel, and in the course of a brief toast-list much gratification was expressed at the continued prosperity of the company.

THE annual outing of the employés of Messrs. Corbyn, Stacey & Co., Ltd., took place on July 4. The party left Liverpool Street Station at 9.30 A.M. for Theydon Bois. A ramble in Epping Forest and a visit to the British encampment of Boadicea, near Epping, occupied the morning, and the afternoon was devoted to cricket, rounders, and other games, the weather being ideal. Luncheon and tea were served at the Theydon Retreat, Mr. H. G. Stacey presiding at the former. Mr. J. Williams proposed a vote of thanks to the firm, which was seconded by Mr. F. M. Fitzgerald.

THE employés of Messrs. Brotherton & Co., ammonia and tar distillers, Leeds, were entertained at a garden-party at "The Hall," Roundhay, Leeds, on July 4, by Mr. E. A. Brotherton, head of the company and Lord Mayor of Leeds. About 1,200 employés attended from Leeds, Liverpool, Birmingham, Middlesbrough, Sunderland, Workington, Glasgow, and Wakefield. During the afternoon a presentation—consisting of a bronze bust of himself—was made to Mr. Brotherton on behalf of the workpeople. Sports, games, and competitions filled up the day's programme.

THE annual outing of the employés of Messrs. Geo. Curling, Wyman & Co. took place on July 4 to Brighton. Dinner was served at the Albemarle Hotel, the senior partner (Mr. F. Shaw) presiding. After the usual loyal toasts, the toast of "The Firm" was ably proposed by the Vice-Chairman (Mr. F. J. Brooker), and responded to by the Chairman in a felicitous speech. Mr. Oscar Shaw, who was present, received a very hearty greeting, and was congratulated on his having been taken into partnership. After the committee had been thanked for their services the party dispersed, and the rest of the day was devoted to drives, sailing, etc., with glorious weather conditions. A very successful and enjoyable day was spent.

THE annual outing of the London employés of Messrs. Stafford Allen & Sons, Ltd., took place on July 4. The party left London Bridge early, and arrived at Littlehampton before 10 A.M. The weather was delightful, enabling many to enjoy the boating and swimming. Dinner was provided at one o'clock, and, in the unavoidable absence of the directors, was presided over by Mr. John Hobbs. After the dinner Mr. Hobbs conveyed to the party the good wishes of the directors, and remarked on the good spirit which existed throughout the works. Mr. Armstrong, Mr. Chappell, and Mr. Smith responded. On the motion of Mr. Ellis, a vote of thanks was given to the directors. The fine weather encouraged the party to visit various parts of the district, and teas were arranged accordingly. The return journey was made by about eleven o'clock.

NETHERLANDS NOTES.

Chemistry at Leyden.—By Royal Decree, Professor Dr. A. P. N. Franchimont retires from the position of Professor of Organic Chemistry at the Leyden University on account of his reaching the age of seventy. Dr. J. J. Blanksma, Chief Chemist at the laboratory of the Finance Department at Amsterdam, has been appointed his successor. He will be entrusted with the instruction in organic and pharmaceutical chemistry.

Saccharin Convention.—In his report on the Saccharin Convention, which met at Paris in 1912, the delegate of the Dutch Government (Dr. A. Lam), who is Director of the Municipal Service controlling the food-supply of Rotterdam, advised the Dutch Government to participate in the Convention. He argued that otherwise the reputation of the country would suffer, as participating States would make reprisals against the export trade in chocolate, condensed milk, and biscuits. Dr. Lam also warned the Government that if the matter were postponed, and saccharin-factories came to be established in Holland, the problem of suppression would be much more difficult to handle. It appears now from a report of the Treasury that measures dealing with the making and use of saccharin are contemplated by the Government. As predicted by Dr. Lam, this has raised a storm of protest from the makers of saccharin. The Chemische Fabriek, Naarden, for instance, in a petition to the Minister of Agriculture, Trade, and Industry, combats the view that saccharin is in any way harmful to public health. It is also contended that prohibition of saccharin would not increase the consumption of sugar, and as regards the respective nutrient-value of the two compounds it is pointed out that sweetmeats, fruit-syrups, and non-alcoholic wines are not taken on account of the nourishment they contain. If the price of these preparations were raised many people would be unable to purchase these luxuries. The manufacturers also claim that if the industry is suppressed compensation should be made to the manufacturers.

London Drug Statistics.

THE following statistics are compiled from information supplied by public warehouses. They relate to the receipts and deliveries of some of the leading drugs from and into the London public warehouses for the month of June, and to the stocks on June 30, 1914:

—	June		Stocks		1914	
	Landed	Delivd.	1914	1913	Imprtd.	Delivd.
Aloes .....cs., etc.	172	82	1,158	962	992	815
" .....gourds	—	—	1,322	1,322	—	—
Anise, star .....cs.	—	—	—	—	—	—
Arrowroot ...pkgs.	2,568	1,117	12,310	8,116	11,993	4,762
Balsams.....cks.	—	9	127	116	80	115
Calumba .....pkgs.	295	171	769	1,940	721	1,218
Camphor ..... "	615	823	1,153	1,426	4,773	4,707
Cardamoms ... "	256	343	1,090	1,026	2,465	1,967
Cascara sagrada tons	—	16	208	263	32	63
Cinchona .....pkgs.	267	434	3,134	3,590	1,789	1,926
Cochineal .....bgs.	—	24	356	286	241	165
Cubebs ..... "	—	30	125	146	28	104
Dragon's-blood pkgs.	20	32	57	86	126	124
Galls..... "	25	99	2,382	3,622	834	1,583
Gums—						
Ammoniacum "	—	2	68	82	54	19
Animi ..... "	68	96	127	272	429	582
Arabic ..... "	496	999	3,571	7,256	2,227	5,629
Asafetida ..... "	—	43	1,374	2,102	428	700
Benzoin ..... "	153	77	632	554	940	889
Copal ..... "	4,154	4,165	8,460	20,333	27,229	27,500
Damar ..... "	661	770	2,834	4,438	4,221	4,507
Gamboge ..... "	11	7	67	115	50	58
Guaiacum ... "	—	1	88	28	34	8
Kauri... tons net	145	64	591	197	675	438
Kino ..... pkgs.	—	—	37	56	—	11
Mastich ..... "	—	—	13	22	2	—
Myrrh, E.I. ... "	20	18	352	360	136	160
Olibanum ..... "	26	46	888	1,273	280	261
Sandarac ..... "	34	48	339	431	526	566
Tragacanth ... "	929	979	10,018	6,668	10,791	7,501
Ipecacuanha—						
Cartagena ... "	—	1	124	20	109	54
E.I. (Johore) "	4	24	57	—	82	65
Matto Grosso "	76	25	140	116	144	153
Minas ..... "	—	5	8	36	16	46
Jalap .....bls.	12	31	176	240	149	162
Nux Vomica ...pkgs.	12	56	6	218	80	93
Oils—						
*Anise, star .....cs.	30	—	71	20	71	23
*Cassia ..... "	50	5	94	32	85	30
Castor .....pkgs.	68	89	174	222	631	620
Coconut .....tons	125	114	392	302	997	981
Olive .....pkgs.	657	588	2,174	2,039	3,953	3,245
Palm .....tons	—	—	56	57	—	—
Quinine .....lb.	313	7,662	191,077	231,805	10,850	32,848
Rhubarb .....cs.	40	27	641	561	238	317
Chin.Rhapont. bgs.	—	13	2,395	2,525	—	62
Sarsaparilla .....bls.	70	56	101	261	438	428
Senna .....pkgs.	296	513	571	1,637	1,378	2,579
Shellac .....cs.	2,109	3,876	99,455	89,281	27,447	21,922
Turmeric .....tons	21	30	268	356	67	252
Wax—						
Bees' .....pkgs.	344	293	1,498	1,719	1,882	1,908
Vegetable ... "	—	61	579	464	806	574

* Stocks of essential oils at Smith's Wharf and Brewer's Quay are not included.

TRADE REPORT.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., July 9, 6.30 p.m.

THE Mincing Lane markets for drugs and other produce continue to show little activity, and no expansion is looked for during July and August. A sharp advance in opium, due to speculative and American consumers buying in primary markets, has been a feature this week, and the alkaloids, such as morphine and codeine, have followed in sympathy. Otherwise the changes, which are few, include a drop in lemon oil "outside" of the Syndicate. Bergamot is the turn firmer, orange being unaltered. New otto is offering at lower rates; French neroli oil is dearer this season. English castor oil and Chinese cantharides are cheaper. Menthol is flat, having no attraction for operators at the moment. Quinine is firm, with further business from second-hands. Cumin-seed is again dearer, and Morocco coriander is lower. The principal movements have been as under:

Higher	Firmer	Easier	Lower
Cardamoms (Indian) Cloves Codeine and salts Cumin-seed Morphine Opium	Ammonia sulphate Bergamot oil	Anise oil (Star) (c.i.f.) Castor oil (Eng.) Copper sulphate Resin Sarsaparilla (Grey and Native-Jam.) Shellac	Aloes (Cape) Benzols Cantharides Coca-leaves Coriander-seed Lemon oil Otto of rose

Cablegram.

NEW YORK, July 8.—Business in drugs has improved. Opium is dearer at $7.20 per lb. Peppermint oil in bulk is 5c. lower at $3.75, and menthol is also cheaper at $2.90. Cartagena ipecac has been advanced to $1.45. Belladonna-leaves are cheaper at 50c., while oil of birch has been advanced to $1.35. Podophyllum-root is lower at 8½c. per lb.

London Markets.

ANISE OIL (STAR).—Business has been done in "Red Ship" brand for August-October shipment at 4*s*. 6½*d*. per lb. c.i.f., being easier. In drug-auction two cases "Red Ship" brand (congealing-point 15°) sold without reserve at 4*s*. 10*d*. per lb.

ANISEED is unchanged at 27*s*. per cwt. for good Russian on the spot and at 35*s*. 6*d*. for Spanish.

APOMORPHINE is unchanged as yet, makers quoting 26*s*. 6*d*. per oz. net for the hydrochloride crystals.

BERGAMOT OIL is slightly firmer at from 16*s*. 3*d*. per lb. c.i.f. upwards.

CAMPHOR (REFINED).—Japanese is steady, 2½-lb. slabs offering at 1*s*. 8*d*., 1-oz. tablets at 1*s*. 8*d*., and ¼-oz. at 1*s*. 8½*d*. per lb. on spot.

CANARY-SEED is firm at 94*s*. to 96*s*. per quarter for ordinary quality on the spot. Medium qualities are scarce at present. Fine Spanish has been sold at 130*s*. per quarter for a small quantity.

CANTHARIDES are cheaper, Chinese offering at 3*s*. 1*d*. per lb. c.i.f., and near at hand at 3*s*. 7*d*. per lb. c.i.f. Fine Russian on spot are offered at 7*s*. 6*d*., but difficult to sell.

CARAWAY-SEED is steady at 29*s*. to 30*s*. per cwt. for fair to good Dutch on the spot.

CASTOR OIL of English make is 5*s*. per ton lower at 25*l*. per ton for first-pressing; August-December (1914) delivery is quoted at 25*l*. and January-June (1915) at 25*l*. 10*s*., usual terms, delivery free on wharf London. Pharmaceutical quality is 50*s*. per ton over the price of firsts, and oil in tins and cases 50*s*. per ton over the respective price in barrels. Belgian firsts for prompt and forward delivery is quoted at 24*l*. 15*s*. per ton f.o.b. Antwerp. In Liverpool, good seconds Calcutta is quoted 3⅜*d*. on spot, and forward positions at 3¾*d*. per lb.

CINCHONA.—Further particulars of the auction of pharmaceutical bark to be held at Amsterdam on July 16 show that the 1,109 bales and 371 cases weigh 93,011 kilos., the quinine-content being 2,875 kilos.; 85,553 kilos. consists of Succiruba and 7,458 kilos. Robusta, of which 62,239 kilos. is root-bark.

CITRIC ACID remains in good demand with no relief to the scarcity, 2*s*. 5*d*. being the price.

CLOVES are dearer, sellers of fair Zanzibar on the spot now asking 6¼*d*. per lb., an advance of ¼*d*.; arrival business includes July-September shipment at 5⅝*d*., and since buyers at 5 11/16*d*. c.i.f. d.w. For June-August delivery there are buyers at 6*d*. and August-October at 6*d*.

COCA-LEAVES.—Further particulars of the auction to be held at Amsterdam on July 16 show that the 2,047 packages weigh 107,517 kilos., the total alkaloid-content being 1,771 kilos.; the average percentage is 1.66.

COCOA-BUTTER.—At the Amsterdam auction 85 tons Van Houten's A sold at 80.62 cents, against 80.33 cents; 166 tons B sold at 79.29c., and 55 tons Blooker at 79.03c. per half-kilo.

COD-LIVER OIL.—As is usual at this period of the year, the market remains quiet but steady, with finest brands of 1914 non-freezing Lofoten oil offering at 71*s*. to 74*s*. c.i.f. In the drug-auction 12 casks Newfoundland were limited at 2*s*. per gallon.

Last week we gave the total results of the Norwegian cod-fishing, which we now supplement with further details; the Finmarken fishing, which closed on June 30, being as follows:

Year	Catch of Cod	Yield of c.l.o. (hect.)	Livers for Raw Oils (hect.)
1914	23,560,000	14,316	4,685
1913	34,787,000	22,731	7,155
1912	36,701,000	29,000	26,589
1911	29,783,000	19,559	7,465

The total figures for all cod-fisheries in Norway are:

1914	81,500,000	57,171	12,585
1913	76,000,000	48,263	13,146
1912	99,100,000	76,202	34,000
1911	64,400,000	43,318	12,729

Our Bergen correspondent writes on July 6 that the market is quite lifeless, and the quotation of 71*s*. per barrel c.i.f. for prime non-congealing cod-liver oil is nominal.

CODEINE.—The makers have advanced their price by 7*d*. per oz., the basis price for pure crystals and precipitated in contract quantities of 175 oz. being 12*s*. 3*d*. per oz. net; hydrochloride and sulphate are 10*s*. 10*d*., and phosphate 9*s*. 5*d*. net.

COPPER SULPHATE is 2*s*. 6*d*. per ton easier, the usual Liverpool brands offering for prompt delivery at 19*l*. 15*s*. per ton.

CORIANDER-SEED is lower at 12*s*. per cwt. for sound old-crop Morocco, and at 9*s*. to 10*s*. 6*d*. for wormy. New crop is offering at 10*s*. 6*d*. c.i.f. terms, but buyers are holding off.

CUMIN-SEED is again dearer. Old-crop Morocco has been sold at 38*s*. per cwt. on the spot. New crop is quoted 37*s*. 6*d*. c.i.f. terms, but there are no offers.

FENUGREEK-SEED is steady at 9*s*. 3*d*. per cwt. on the spot for Morocco quality.

GAMBOGE.—The *Fionia* has brought 24 cases from Bangkok.

GERANIUM OIL.—Bourbon is unaltered at 10*s.* for prompt and 9*s.* 9*d.* for August-September delivery, these prices, owing to speculation, being below the parity of those prevailing in Bourbon.

The exports from Reunion (Bourbon) during 1913 amounted to 43,000 kilos. (94,600 lb.), as against 43,953 kilos. in the previous year. The prices varied very much, starting at 42f. 50c. (1*l.* 14*s.*) per kilo. (2.2 lb.) and gradually going up to 110f. (4*l.* 8*s.*) per kilo., to come down again to 40f. (1*l.* 12*s.*) per kilo. The net average price obtained was 60f. (2*l.* 8*s.*) per kilo There has also been a great reduction in this product owing to the cyclone, but the estimates for 1914 prediet an increase, says the British Consul.

GINGER.—Small sales of new-crop Sierra Leone have been made in Liverpool at the parity of 16*s.* per cwt., transit terms.

IODINE PREPARATIONS.—The following are the current British makers' prices: Commercial *Iodine*, 13*s.* 4*d.* per lb.; resublimed, 14*s.* 3*d.*; 14-lb. lots, 13*s.* 11*d.*; 28 lb. and upwards, 13*s.* 8*d.* per lb. net. *Iodoform*, 16*s.* 10*d.*; 14 lb., 16*s.* 4*d.*; 28 lb. and upwards, 16*s.* per lb. net. *Potassium iodide*, 12*s.* 9*d.*; 14 lb., 12*s.* 6*d.*; 28 lb., 12*s.* 3*d.*; 1 cwt. 12*s.* per lb. *Sodium iodide*, 14*s.* 4*d.*; 14 lb., 14*s.*; 28 lb. and upwards, 13*s.* 8*d.* *Ammonium iodide*, 17*s.* per lb.

LEMON OIL is offered at lower prices outside the Syndicate holdings, from 7*s.* 4*d.* to 7*s.* 10*d.* per lb. c.i.f. being quoted for prompt shipment, and for January-April (1915) shipment 7*s.* 4*d.* c.i.f. is quoted. The spot price varies from 8*s.* to 8*s.* 6*d.* per lb.

A Sicilian advice, dated July 4, states that business during the week has been extremely quiet, with practically no demand from abroad; locally only a few transactions made by speculators and almost none by exporters. Thus our market was really left to itself, and a further reaction could not but take place. We do not know how the members of the Syndicate will act in the face of present figures, but to-day it is possible to secure some small parcels at below last week's prices. People generally thought that the hot weather, which has been prevailing practically everywhere in consuming countries, would have brought forward a revival in the demand, but up to now this has not been the case—or at least such revival has not been reflected in our market. Market closes with a weak tendency.

LINSEED is unchanged at 49*s.* to 51*s.* per quarter for fine, clean qualities.

MENTHOL.—Privately, the market is flat, the nominal value of Kobayashi-Suzuki being 10*s.* 3*d.* to 10*s.* 6*d.*, with a retail business. No business has been done to arrive, Japan asking higher prices, including 14*s.* c.i.f. in combination with oil for July-August shipment, and for menthol alone August-September is quoted 10*s.* 6*d.* c.i.f., without attracting buyers. At the drug-auction two cases of Suzuki sold at 10*s.* 4*d.* per lb., and for three cases Suzuki, offered without reserve, from 10*s.* to 10*s.* 1*d.* was paid. Privately there are buyers of June shipment at 10*s.* 1½*d.* c.i.f. The *Kaga Maru* has brought 155 cases of menthol and oil in transit.

MINT OIL.—Cabled bids of 3*s.* 9*d.* c.i.f. have been refused, Japan quoting 4*s.* 1*d.* for September-November shipment. Spot is quoted at from 3*s.* 10½*d.* to 4*s.* for leading brands.

MORPHINE has advanced a further 2*d.* to 3*d.* per oz., makers quoting the hydrochloride powder at 8*s.* 11*d.* to 9*s.* net, and not keen for further business at the moment in view of the rise in opium.

MYRRH.—Privately good Aden sorts offer at 55*s.*, fair at 47*s.* 6*d.*, and siftings at 40*s.* per cwt.

NEROLI OIL.—The new French crop has been poor this season, and the advanced rate of 11*s.* 6*d.* per oz. now prevails for finest.

OPIUM has advanced fully 1*s.* to 1*s.* 6*d.* in primary markets, with a more active consuming demand, the United States having bought a moderate quantity. On Wednesday there were offers to sell 11-per-cent. test at 14*s.* 9*d.* c.i.f., and up to 17*s.* 3*d.* was paid for 11½-per-cent.; a quotation of 18*s.* had also been received for this test. In consequence of the rapid advance in Turkey, buyers have turned their attention to Persian, in which a good spot business has been done at from 16*s.* to 18*s.* as to test. The spot price of good Turkey druggists' is nominal, there being practically no sellers at the moment. The sharp rise appears to be due to the continuous rains, which have reduced the crop estimates, also to active speculation.

A Smyrna correspondent writes on June 26 that the sales this week on our market amount to 68 cases at 14*s.* to 16*s.* 6*d.* per lb., as to quality and crop. So long as this active demand continues we cannot give hope of any decline. The arrivals in Smyrna are 238 cases, against 258 at same date last year.

A Constantinople correspondent writes on July 4 that the rain has continued this week, unfortunately causing considerable damage; so much so that we must reduce our crop estimates by 20 to 25 per cent., making a crop of, say, 6,500 cases. Speculators have been operating, and this has contributed to the firmness of prices, obliging the exporters to pay up to ptrs. 245 for the same quality which was sold the previous week at ptrs. 230 to 235. These sales have also helped to maintain the Smyrna market, and we hear that speculators have paid ptrs. 240. We think that, as long as rain continues, prices will be maintained, and that a further sharp rise may be expected. The arrivals are 50 cases, against 44 cases, and the stock 253 cases, against 245 cases.

A Smyrna correspondent writes on July 3 that, owing to heavy torrential rains over all the opium-producing districts, we have to report a material large deficit in this year's yield, the estimates of which now vary from 5,500 to 6,500 cases. Owing to this prices this week have advanced by leaps and bounds, and to-day the nominal quotations for 11-per-cent. and 11½-per-cent. are 16*s.* and 17*s.* respectively, with few sellers and many buyers. The sales in all amount to 72 cases, commencing at 14*s.* 9*d.* to 15*s.* 6*d.* and ending at 16*s.* to 17*s.* The general opinion is that very soon we shall be quoting 19*s.* to 20*s.* for 11-per-cent. goods. The arrivals are 408 cases, against 472 at same date last year.

ORANGE OIL.—Italian is unaltered at 8*s.* per lb. c.i.f. for either sweet or bitter.

PEPPER.—Quiet, with fair black Singapore offering at 5*d.* on spot, the value of fair white Singapore being 8⅝*d.* and fair Muntok 9⅛*d.*; to arrive white Singapore for August-October shipment has been sold at 8$\frac{5}{32}$*d.* and Muntok at 8¾*d.* c.i.f.

PEPPERMINT OIL.—American tin oil is quiet and unchanged at 17*s.* 6*d.* per lb., and for H.G.H. sales have been made at 21*s.* 6*d.* London terms.

QUICKSILVER.—The Baron does not appear to have a price at the moment, but in another direction 6*l.* 12*s.* 6*d.* is quoted.

QUININE remains firm, with further sales from second-hands at 1*s.* 0½*d.* for the usual brands of German sulphate.

ROSE-PETALS.—Dutch are dearer at 4*s.* 6*d.* per lb.

SHELLAC.—At the opening of the week the spot quotation for standard TN quality was 64*s.* to 65*s.*, but an easier feeling developed by Wednesday, with small sales on a basis of 63*s.* for fair TN Orange; free AC Garnet is quoted 65*s.*, and GAL 65*s.* spot. Futures are cheaper, the sales including August delivery at 64*s.* to 62*s.* 6*d.*, October 65*s.* to 65*s.* 6*d.*, and December at 65*s.* 6*d.* to 65*s.*

SOY.—Business has been done in a leading brand at 1*s.* 7*d.* per gal.

TURPENTINE has shown little fluctuation on the week, with a fairly active market, American on the spot closing at 34*s.* per cwt.

London Drug-auctions.

Commercial Sale-rooms,
Mincing Lane, July 9, 1914.

At the auction of first-hand drugs a fair proportion of the offerings sold. Cape aloes met with a poor demand, and rates were again in buyers' favour to the extent of about 1*s.* Buchu is held for higher rates by importers. Coca-leaves are cheaper, and new calumba also sold in buyers' favour. Cardamoms met with a good demand at irregular rates for Ceylon Mysores, while Indians were full up to dearer. Chiretta and cassia fistula sold steadily. Honey met with a good market at full-up rates for the common grades, little really good quality being offered. Ipecacuanha was steady for Matto Grosso. Jalap was cheaper. Myrrh was not offered. Rhubarb quiet, and sarsaparilla 1*d.* easier for both grey and native Jamaica. New Tinnevelly senna sold at about steady rates, and for

what little beeswax sold firm rates were paid. The following table shows the quantity of goods offered and sold:

	Offered	Sold
Aconite (Jap.)	10	0
Aloes—		
Cape	62	29
Ambergris ...(tins)	2	0
Anise oil (star)	2	2
Annatto-seed	59	10
Balsam Peru	3	0
Bay oil .....(bxs.)	3	0
Belladonna-root	6	0
Benzoin—		
Sumatra	18	5
Buchu	18	0
Calumba	193	23
Cannabis indica	13	0
Cardamoms & seed	174	120
Cascara sagrada	80	0
Cassia fistula	17	17
Chiretta	8	5
Cocaine .....(cs.)	2	0
Coca-leaves	30	30
Cod-liver oil(Newf.)	12	0
Cuttlefish-bone	48	0
Dragon's-blood	4	0
Elemi	10	0
Ergot	21	0
Eucalyptus oil	70	0
Galbanum	13	*1
Guaiacum	1	1
Gum acacia	21	0
Honey—		
Cuban	77	59
Jamaica	212	187
St. Lucia ...(cs.)	11	11
West Indian	16	16
Ipecacuanha—		
Cartagena	10	0
Matto Grosso	17	8

	Offered	Sold
Jalap	28	10
Kamala	28	0
Kola	6	1
Lime-juice	23	0
Lime oil.....(W.I.)	1	0
Menthol	5	5
Mint oil (Jap.)	3	0
Olibanum	34	0
Orange-peel	4	4
Otto of rose...(vs.)	5	0
Papain	5	0
Patchouli-leaves	6	0
Puree	5	0
Quassia-chips(bgs.)	160	0
Quince-seed	5	0
Rhapontica	10	0
Rhubarb—		
China	19	3
Sandalwood-chips	5	5
Sarsaparilla—		
Grey Jam	15	11
Lima-Jam.	6	0
Native Jam	25	16
Seedlac	66	0
Senna and pods—		
Alex.	17	1
Tinnevelly	135	135
Tamarinds (W.I.)	26	0
Tonka-beans	29	*1
Turmeric	130	0
Wax (bees')—		
Cuban	3	3
Dutch	8	0
East Indian	40	0
Jamaica	11	3
Morocco	50	*13
West Indian	6	5

* Sold privately.

Aloes.—Cape, the only kind offered, met a flat market, and prices of firsts declined about 1*s*. per cwt. Mossel Bay (usual 20 per cent. tares) good hard bright firsts sold at 34*s*.; fair firsts, slightly soft, at 33*s*.; and fair seconds, slightly soft, part cindery, 30*s*. to 31*s*. per cwt. The *Kenilworth Castle* has brought 76 cases from Mossel Bay.

Annatto-seed.—Ten bags Madras, fair but oil-damaged, sold without reserve at 2½*d*. per lb.

Balsam Peru.—Three cases of fair of direct import from Acajutla were retired at 6*s*. 6*d*.

Belladonna-root.—Six bales fair, without test, were held at 55*s*.

Benzoin.—Only 18 cases Sumatra offered, of which three cases sold at 6*l*. per cwt., subject, for ordinary false-packed seconds, and for two cases of good thirds 5*l*. 15*s*. was paid. The *Lycaon* has brought 46 cases from Singapore and 40 cases from Penang.

Buchu very firmly held. The limit for good green round, free from stalk, was 6*s*. Ovals were held at from 2*s*. 4*d*. to 2*s*. 8*d*. for very stalky to fair greenish slightly stalky, and for bronzy longs 4*s*. 6*d*. was wanted. The *Edinburgh Castle* has brought 45 bales from Cape Town.

Calumba.—A lot of 23 bags new crop of small to bold round sorts of fair pale colour, slightly wormy, sold at 15*s*., being cheap; 20 bags small to bold sifted washed were retired at 27*s*. 6*d*.; and for 150 bags old crop, very wormy sorts, the buying-in price was 14*s*.

Cardamoms met with a good reception. Ceylon-Mysores were irregular, but generally easier, but Indian were firm to 2*d*. dearer. The following rates were paid: Ceylon-Mysore, extra bold fine pale, 6*s*. to 6*s*. 1*d*.; good bold ditto, 5*s*. 4*d*. to 5*s*. 8*d*.; bold to medium, 5*s*. 1*d*. to 5*s*. 3*d*.; small to medium, 4*s*. 7*d*. to 4*s*. 10*d*.; medium to bold long brownish, 4*s*. 2*d*.; tiny, 3*s*. 7*d*.; good splits, 4*s*. 6*d*.; ordinary to fair brown and split, 2*s*. 11*d*. to 3*s*. 3*d*.; dull to fair seed, 4*s*. 2*d*. to 4*s*. 4*d*.; small greenish Alleppy, 2*s*. 11*d*.; Indian from Calicut, extra bold long pale, 5*s*. 9*d*.; round ditto (Mangalore character), 5*s*. 9*d*. to 5*s*. 10*d*.; bold and medium long, 5*s*. 5*d*. to 5*s*. 6*d*.; round ditto, 5*s*. 6*d*.; small and medium long, 4*s*. 8*d*. to 4*s*. 9*d*.; round ditto, 4*s*. 11*d*.; tiny, 3*s*. 11*d*. to 4*s*.; bold reddish and pale specky, 5*s*. 2*d*.; medium, 5*s*. 1*d*. to 5*s*. 2*d*.; small, 4*s*. to 4*s*. 4*d*. per lb.

Cascara Sagrada.—Eighty bags of fair, part thick, bark of this year's import were retired at 37*s*. per cwt., a bid of 35*s*. 6*d*. being refused.

Cassia Fistula.—Twelve bags fair Dominican pod sold at 16*s*., and for five baskets Java 16*s*. was paid for leanish.

Chiretta.—Steady, five bales fair realising 3½*d*. per lb.

Coca-leaves.—Three bales ordinary matted Java (Truxillo character) sold at 1½*d*. per lb., and for 27 bags of fair green powdered Java 3½*d*. was paid.

Dragon's-blood.—Four cases of dull broken Singapore slab were retired at 6*l*. per cwt.

Guaiacum.—A single cask of fair slightly drossy lump and tear sold without reserve at 6*d*. per lb.

Honey.—Jamaica met with a good all-round demand, nothing being sold under 19*s*. for common grades, these being full up, while good quality was almost absent. The following prices were paid: Good bright pale amber liquid 31*s*. to 32*s*., fair pale amber liquid 26*s*. 6*d*. to 27*s*. 6*d*., middling ditto, 22*s*. 6*d*. to 25*s*., and ordinary dark liquid 19*s*. to 20*s*. set, good pale 28*s*., fair palish 23*s*. 6*d*. to 25*s*., and ordinary brown set 19*s*. per cwt. A lot of 54 packages (mostly cases) Honolulu sold at 17*s*. to 17*s*. 6*d*. per cwt. for ordinary brown setting, part sugary, and 19*s*. for five barrels brown liquid; 16 casks of ordinary dark liquid West Indian sold at 19*s*. to 19*s*. 6*d*., and for 11 cases fair brown liquid from St. Lucia 22*s*. was paid; 18 casks Cuban were retired at 22*s*. 6*d*. for good pale set.

Ipecacuanha.—Matto Grosso was steady, six bales fair dull leanish to bright selling at 7*s*. 9*d*., and for two bales of sea- and grease- and oil-damaged 5*s*. 11*d*. was paid. Cartagena was bought in at from 6*s*. 6*d*. to 7*s*. per lb. The *Amazon* has brought 20 bales Matto Grosso from Monte Video.

Jalap.—Ten bales of small to bold part heavy Vera Cruz (testing 6.8 per cent. Harrison) sold without reserve at 5½*d*. per lb. net, no allowances.

Kola.—A single case of ordinary small mouldy Grenada halves sold at 2½*d*.; five bags or fair washed W.I. halves were retired at 4*d*.

Orange-peel.—Four packages of low burnt sold without reserve at from 1½*d*. to 1½*d*. per lb. Privately the price of fair machine-cut Tripoli strip is 1*s*. 10*d*. to 1*s*. 11*d*.

Otto of Rose.—Five vases (Ramzi brand), fair quality, were limited at 35*s*. per English oz. net. Privately agents would submit offers of 35*s*. per English oz. for new crop, up to 40*s*. being quoted by several.

Rhubarb.—Quiet, but steady. A case of small Canton round and trimming root, with three-quarters good pinky break, sold at 3*s*. 6*d*., and for two cases medium to bold heavy flat High-dried, with three-quarters good pinky fracture, 1*s*. was paid. Medium to bold round Shensi of good pinky fracture was retired at 4*s*. 9*d*., and round rough horny High-dried at from 9*d*. to 11*d*. as to break.

Sandalwood Chips.—Five bags East Indian sold without reserve at 40*s*. per cwt.

Sarsaparilla.—Grey Jamaica was 1*d*. per lb. easier, 11 bales selling at from 1*s*. 7*d*. to 1*s*. 8*d*. for part dark and slightly mouldy to fair. Native Jamaica was also 1*d*. per lb. cheaper, 16 bales selling at 1*s*. 1*d*. for fair red, 1*s*. for dull pale red, 1*s*. for ordinary dull yellow mixed, and 11½*d*. for grease-damaged.

Senna.—First arrivals of new-crop Tinnevelly leaf sold at rather better prices than had been anticipated, fair bold greenish realising 3½*d*. to 3¾*d*., middling to fair greenish 2½*d*. to 2¾*d*., and common to ordinary small yellowish 1½*d*. to 2*d*. *Pods*, dark to fair, 1¾*d*. to 2¼*d*. per lb., being rather dearer. Of Alexandrian, eight cases of fair very slightly broken leaf were retired at 1*s*., a bid of 9¾*d*. being refused, and for five bales siftings a bid of 4*d*. was refused. A bale of fair Alexandrian pods, slightly mixed with siftings, and slightly torn, sold without reserve at 9*d*. per lb.

Tonka Beans.—The limit for fair frosted Para quality is 2*s*. 6*d*., at which small sales have been made privately.

Wax, Bees'.—Jamaica was steady, three packages selling at 8*l*. 15*s*. for fair brown; a further eight packages being

bought in at 9*l*. Four bags West Indian sold at 7*l*. 10*s*., and three cases fair greyish Cuban went at 7*l*. 10*s*. also. Bleached Calcutta was held at 8*l*. 12*s*. 6*d*. No East African offered, but parcels will be offered at the next auction. In Liverpool Gambia is quoted 8*l*. 2*s*. 6*d*. ex store.

Manchester Chemical Market.

July 8.

There is continued dullness, which is being perceptibly increased by the opening of the Lancashire holidays in the cotton districts, which will cause a decreased demand for heavy chemicals. In this department there is practically no change to report in prices for prompt delivery. Green copperas is quiet. There is little movement in lead salts, and nitrate is dull, notwithstanding reports to the contrary. There is not much change to report in acetate of lime, and prices remain on the low side. Yellow prussiate of potash is steady, but soda is quiet. White powdered arsenic is easier. Cream of tartar and acids favour sellers. Coal-tar products quiet generally. Benzols for petrol purposes continue in demand, but, although holders on spot will not admit it, the fact is that German competition is affecting prices to a slight extent. Creosote is firm, and carbolic acid about unchanged. Sulphate of copper is 5*s*. to 7*s*. 6*d*. per ton higher on last week. Sulphate of ammonia is higher at 10*l*. 10*s*. to 10*l*. 13*s*. 9*d*., on rails, Manchester.

American Drug Market.

June 28, 1914.

While further improvement has been noted within the past month in the buying movement, business in the drug-market, as a whole, has continued limited, and has consisted chiefly of hand-to-mouth purchases by even the leading consumers. Several important price-changes, chiefly in an upward direction, have been made in consequence of a reduction of spot stocks or a reflection of sharp uplifts in the primary centres. Thus in the case of citric acid and the citrates even the present prices named by manufacturers are being made only for regular customers, and "outsiders" are still compelled to pay almost 20c. per lb. higher. Chloral hydrate has also been advanced as competition abated. As considerable shortages have been noted in the stocks of short buchu, higher prices are looked for.

BALSAM FIR.—Advices from Canada state that a material advance is likely to occur in balsam fir in the near future, as very little is being received, and that much of that arriving has been of very poor quality. The market here remains firm at $10.00 to $11.00. Spot stocks of Oregon are virtually exhausted. Out-of-town holders continue to ask 90c. to $1 for this variety.

BUCHU.—A material falling-off in the demand for the short leaves has induced local holders to lower their prices for this description to $1.45. Long leaves, however, are still being maintained at $1.30.

CALENDULA-FLOWERS have been revised downward to 38c. and 40c.

CHLORAL HYDRATE.—A slackening of competition and a greatly augmented demand have brought about an advance of 11c. per lb. Manufacturers are now asking 31c. in 100-lb. drums and 32c. in 25-lb. jars.

COPAIBA.—More liberal offerings of both South American and Para have been noted of late, as spot stocks have been replenished with supplies from the producing regions. Genuine South American is now quoted at 40c. and Para at 44c.

GUARANA.—A falling-off of the demand and a consequent accumulation of spot stocks have lowered prices to $1.90 to $2.00.

IPECACUANHA.—Cartagena is easier. The demand of late has been light, and prices have been reduced to $1.40 and $1.45, according to holder and quantity. Rio is still firmly held at $2.00 to $2.10.

MENTHOL.—New York importers and other handlers are now offering spot stocks a trifle lower, quoting cases at $3.00.

OPIUM is higher, dealers naming $6.85 in cases.

PEPPERMINT OIL (AMERICAN), in bulk, is lower, influenced by freer and cheaper offerings of new-crop oil, and also because some holders desire to realise. Prices have been reduced to $3.90. New-crop oil is reported to have been offered here for September shipment from the West at $3.00 per lb.

SAFFRON (AMERICAN).—Owing to a diminution of buying and accumulation of spot stocks prices are easier. There are now sellers at 50c. to 52½c., according to holders.

SARSAPARILLA is easier. A recent slackening of the demand for both Mexican and Honduras has resulted in freer offerings of the Tampico or Mexican variety at 35c. and of the Honduras description at 45c.

The Port of London.

The Port of London have issued a very interesting volume dealing with the past and present history of the Thamos and its docks. The letterpress is by Mr. Douglas Owen, and the illustrations, which are numerous and artistic (some in colours), are by Mr. Charles T. de Lacy. The book briefly traces the rise of the Port of London from its earliest days, and relates the circumstances which eventually led up to the creation of the Authority. The work deals fully with the great schemes of improvements now in course of execution, and shows effectively the great part which the enterprise is likely to play in the future commercial history of London, the Port of the Empire.

Herb Crops.

Mr. Jesse Matthew, Coulsdon, Surrey, reports as under:

PEPPERMINT.—The weather in the spring was most unfortunate for planting out, and, owing to dryness, the young plants in many instances had to be "mudded" in. Consequently the plants failed to grow, and the results can now be seen in the large number of bare patches in the fields. The crop will be very short, and prime oil will rule high, prices being estimated the highest for many years.

LAVENDER does not show much growth, but may improve later.

CHAMOMILE.—The young plants look well, but there will not be much available for distilling.

Bourbon Vanilla.

According to the British Consul at Reunion, 50 tons of vanilla was exported in 1913, the figures for the five previous years being as follows: 1908, 70 tons; 1909, 39½ tons; 1910, 42 tons; 1911, 51 tons; and 1912, 67 tons. Prices varied between 30f. (1*l*. 4*s*.) and 35f. (1*l*. 8*s*.) per kilo., the net average price being, for all qualities, 32f. 50c. (1*l*. 6*s*.) per kilo. Vanilla is again growing in favour in Reunion, and new plantations have been started. The production was greatly reduced owing to the cyclone of last year, but it is estimated that there will be an increase of about 50 per cent. during 1914.

Foreign Trade in June.

The Board of Trade Returns for June again show a shrinkage in both imports and exports. The imports for the month were valued at 58,272,042*l*., or 37,477*l*. less than in June 1913, and the British exports, valued at 39,873,976*l*., were 2,963,592*l*. less; on the other hand, re-exports were slightly better at 8,753,434*l*., being 212,317*l*. more. A diminution of 1,301,248*l*. in food, drink, and tobacco is a feature of the June imports; raw materials improved by 612,836*l*. and manufactured articles by 673,416*l*. Raw cotton imports improved by 1,483,359*l*., but oil, seeds, and the like diminished by 292,238*l*. The imports of chemicals and allied produce amounted to 1,090,597*l*., or an increase of 114,595*l*. over June 1913; the improvement was general, applying to twenty-three scheduled items. On the export side the features of the month were a decline of 345,900*l*. in raw materials—chiefly coal—and a decline of 2,905,324*l*. in manufactured goods, yarns and textile fabrics decreasing to the extent of 1,540,961*l*.; iron and steel fell by 807,297*l*. The chemical group shows exports of 1,550,297*l*., or 88,528*l*. less. The principal decreases were coal products (not dyes) by 55,444*l*., glycerin by 12,229 cwt., chemical manures by 29,739*l*., soda compounds by 79,769 cwt., bleaching-powder by 4,243 cwt., sulphuric acid by 8,852 cwt., and tartaric acid by 185 cwt. The medicine-section exports were valued at 198,727*l*., or 14,633*l*. more, which is very gratifying in the face of the shrinkage in other departments. Quinine improved by 15,825 oz., or 1,632*l*., to 106,413 oz. The six months' figures for drugs and medicines are now as follows:

	1912	1913	1914
	£	£	£
Opium	38,417	8,088	7,744
Quinine	31,936	31,457	43,157
Other medicines ...	965,032	1,126,100	1,180,445
	£1,035,385	£1,165,655	£1,231,340

Taking the whole chemical group together, we have exports of 11,368,468*l*. for the six months, which is 596,732*l*. less than the corresponding period of last year, but 520,379*l*. greater than in 1912. Glancing at one or two outside articles, we note that the imports of turpentine for the six months show a big reduction from 123,059 cwt. to 87,284 cwt., the value declining from 166,986*l*. to 132,842*l*.; linseed oil also shows a similar falling-off from 9,997 tons to 4,103 tons. Acacia gum imports were 53,797 cwt., or 4,258*l*., less, and of quicksilver we have imported 2,633,482 lb. or 349,820 lb. less; the exports of the metal, however, show the big shrinkage of 425,931 lb., the shipments being 897,975 lb. for the six months.

Correspondence

Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with.

Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Correspondents are requested to write each query on a separate piece of paper. Every endeavour is made to reply to queries without delay, but insertion of the replies in "the next issue" cannot be guaranteed, nor, as a rule, can they be sent by post.

Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed.

Sulphur in Compound Liquorice Powder.

SIR,—Under the Sale of Food and Drugs Acts several cases have occurred recently in which samples of compound liquorice powder have been alleged to be deficient in sulphur. It may be of interest to your readers to learn that this deficiency in sulphur may not actually exist, but is shown by an inaccuracy in analysis. Owing to the presence of organic matter the usual method of oxidation of sulphur to sulphuric acid by nitric acid will easily give low results, about 4 per cent. Miss Margaret Jessie Crosbie, a student at this institute, investigated a sample of compound liquorice powder which was alleged to contain only 4 per cent. of sulphur, and found that analysis by the nitric-acid method gave that result. Extraction by carbon disulphide, however, gave 7 per cent. of sulphur, showing that the first method was faulty. The following modification of the oxidation method was finally found to give the correct percentage of sulphur—namely, 8 per cent. :

One gram of the sample is treated with 50 c.c. of 1.5 HNO_3 and a little powdered $KClO_3$, and evaporated to dryness. Half a gram of powdered $KClO_3$ and 5 c.c. of HCl are added, and the evaporation repeated.

A second quantity of $KClO_3$ and HCl is added and again evaporated. The residue is then treated with 100 c.c. of distilled water and boiled, and the sulphate precipitated with $BaCl_2$ solution. It is preferable to allow the precipitate to stand overnight, when it is filtered and weighed as $BaSO_4$.

I think that it is desirable that a method such as this one adopted by Miss Crosbie, in which special care is taken to ensure the complete precipitation of the sulphur as sulphate, should be used in the analysis of a mixture such as compound liquorice powder.

I am, Sir, yours faithfully,
W. HOWIESON GIBSON, B.Sc., Lecturer in Chemistry.
The Technical Institute, Dartford.

The late Dr. Reynolds Green.

SIR,—Owing to delay in transit I did not reach the Council Chamber on Wednesday, July 1, until a few minutes after the commencement of the business, so did not know of the President's reference to the late Professor J. Reynolds Green. Had I done so I should have supplemented the remarks with a few from my personal knowledge and experience as to his sterling character and worth in directions other than scientific and academic. He was one of varied gifts and graces, unostentatious and kindly, a definite personality, making his presence and influence felt in all that he undertook. When the Pharmaceutical Conference visited Cambridge in 1911 he accepted the chairmanship of the Local Executive Committee, and in that capacity did much to secure success and hearty appreciation from those who attended or took part therein. As a member of the Sir Isaac Newton University Lodge of Freemasons he did good work and took high honours in that connection. He held many offices, including Master of Alma Mater, Provincial Grand Warden, a Mark Mason, and Provincial G.D., England, 1910. He was greatly esteemed, not only in his own college (Trinity), where he graduated, and Downing, where he was elected a Fellow and Lecturer, but by Masters, Tutors, Fellows, and others throughout the University of Cambridge. He was not only a man of high moral worth, but took a wide interest in work of a religious character and served as a member of the Diaconate at Emmanuel Church for twelve years with much acceptance, carrying out the duties with a modest, quiet dignity and refinement that won for him universal respect. This interest was not confined to that body; he was ever ready to assist in any work of a social, philanthropic, or benevolent character, and his untimely removal, within a few days after a sister who resided with him, created a vacancy most difficult to fill.—Yours very truly,

Cambridge. A. SIDNEY CAMPKIN.

Breaking Bulk of Stamped Medicines.

SIR,—I am indebted to Mr. W. S. Glyn-Jones, M.P., as Secretary to P.A.T.A., for forwarding a copy of the motions I intend to submit at the P.A.T.A. annual meeting on July 14, and to THE CHEMIST AND DRUGGIST for the publicity given. I have received communications from several pharmacists regretting inability to attend, being single-handed and not early-closing day; also reminding me not to lose sight of the fact that many general shops not holding a patent-medicine licence "break bulk" of patents. As this is one of the concurrent evils I should be glad to know to what extent it is done; if pharmacists could give me any information (in confidence) on this point I shall be obliged. It is hoped that those who are able will make a point of attending the meeting. The notices of motion clearly define the scope of discussion, and it is desirable that they shall be considered, and the course adopted which in the opinion of the meeting will be deemed advisable.—Yours faithfully, ALFRED HIGGS.

Richmond Road, Kingston-on-Thames.

Drug-trade Profits.

SIR,—"Reg. Chemist" raises many questions in his letter last week, but I can only tackle part of them this week. He speaks of State drug service, which is a big job. Now, the State has entered upon a crusade of "health," and presently is to tackle "slums" and "housing" generally, and I am convinced that if they take it into their heads to make us "State servants," they won't consult us at all. So we need not worry, but I believe we can do a lot to help ourselves by tackling the jobs which lie near at hand The ultimate end of National Health Insurance and "housing" will be to decrease drug-taking when hygiene is properly understood and followed; therefore as a body we ought not to look for any increase of trade except in a temporary sense. From what I know of Wales, if Lloyd George does not include new windows to open, and force them into every house, as a part of his tuberculosis scheme, he will need 2,000,000*l*. a year for Wales alone. Consumption, I suggest, has been caused in Great Britain by (1) intermarriage, (2) the absence of building laws 100 years ago, and (3) the presence of window-glass 100 years ago. So that our drug-trade profit will benefit for, say, the next ten years, after which it will decline. As drugs cannot replace ventilation, and as I expect to see the M.O.H. and the factory inspector empowered to enter and compel proper ventilation in every house and shop, then, you see, this health crusade is bound to get wider in application, with the sure result of ultimately reducing the number of consumptives, and therefore the need for drugs. If at the same time we have the State tackling the question of syphilis and preventing the marriage of unfit persons, every thinking man and woman must agree that in another generation from now the drug-trade turnover will be cut in half. So that I do not anticipate State dispensaries, as twenty years hence we shall have to live off luxuries which no State will ever trouble to supply. JAY MACK.

SIR,—In reference to the letter of "Reg. Chemist, No. 10321," in your last week's issue, it is gratifying to note that there are others who see the necessity for

chemists to possess a knowledge of bookkeeping. This was one of the strong points in my address previous to the Pharmaceutical Council election of May last, and I shall continue to advocate it, knowing what an advantage it would be to all chemists in business on their own account. Primarily chemists are in business to make money; secondarily, to have a congenial occupation; and, lastly, to render efficient service to their fellows and their country. Now, to conduct a business successfully some knowledge of bookkeeping is essential. The Pharmaceutical Society should at the outset of a young student's career insist upon at least an elementary knowledge of this important subject by making it a part of the "Preliminary." Under present conditions young men are allowed to go blindly on until, having obtained businesses of their own, they find out—sometimes, alas! too late—that their lack of knowledge in this direction has severely handicapped them. To ask the average chemist what he knows of "single entry" would alarm him, and the mere mention of "double entry" would give him a fright. What he requires is some simple, modified plan of bookkeeping which will satisfy—

(1) Himself in the conduct of his business.

(2) The income-tax collector—showing mainly, in concise form, his expenditure.

(3) A possible purchaser of his business, before or after death, especially after, for the sake of the legatees.

If it should be my good fortune to be asked by the Ucal Lodge of Pharmacy to give them another address, I shall be pleased to give them what I consider a method of bookkeeping which will satisfy these requirements. I should, however, at the outset disarm all critics by frankly stating that it will not claim to be orthodox. It would, however, reduce time and trouble to a minimum, so necessary in these days of strenuous clerical work in connection with the pricing of National Health Insurance prescriptions, etc. Your correspondent writes of "the inauguration of a State service." Do we not now have this under the National Health Insurance Act? Are not "panel" chemists "State servants"? If he means that the State should set up separate dispensaries of their own, I would strongly oppose it. It is being suggested that this should be done in industrial centres. There is a great probability that this would be quickly followed by State dispensaries in all centres, to the exclusion of all the chemists now "on the panel." I am of opinion that this would be a great calamity to the present "panel" chemists, who are doing the work so ably and so well. Many of these have been put to considerable expense in enlarging their stock, and even premises, in order to cope with this extra work. They undertook the work under an agreement which was a disgrace to the nation who made it; they signed it mainly to establish the fact that pharmacy should be for the pharmacist, and doctoring for the doctor. We have heard a great deal about the marriage of pharmacy to the practice of medicine, and rightly, too; but husband and wife have usually separate duties, and the one should not undertake those of the other.

Yours truly,

CHAS. W. BRUMWELL.

Drug-Tariff Reform.

SIR,—In connection with Mr. G. Cormack's letters, it is surprising that no one has recalled the history of the $\frac{4}{10}$ addition, which explains much. The wording under "Solids" on page 1 of the 1914 Tariff (with a Tariff ounce of 480 grains) is exactly the same as that of the first Tariff for January to April 1913 (with a 437.5 grain ounce). The original idea underlying the $\frac{4}{10}$ addition was undoubtedly to make good the difference between 437.5 grains and 480 grains (approximately $\frac{1}{10}$), and in adding $\frac{4}{10}$ the compilers of the Tariff apparently believed they were carrying out the principle of "the smaller the quantity, the larger should be the proportion of profit." The rest is oversight. The continuation of the old principles to newer Tariffs with basic alterations is responsible for other inconsistencies. In extended pricing conflict is also evident between consistency in arithmetic and principle.—Faithfully yours,

Surbiton. W. A. WHATMOUGH.

Subscribers' Symposium.

For questions, answers, incidents, and interchange of opinions among "C. & D." readers.

Essence d'Orient.

L. D. (22/8) wants to know what essence d'Orient is. He understands it is used as a solvent for substances which produce a flaky film on evaporation.

Appreciations.

"Last year was the first time I subscribed to your journal; it will not be the last."—(151/9.)

"I always look forward to THE CHEMIST AND DRUGGIST on a Friday morning, and I would not like to miss a copy of it. My father subscribed to it, and since I took over the business I feel it is one of the subscriptions that must not be given up."—(158/25.)

Jay Maeksims
(as he writes them).

1. The surplus of helpers is not very apparent if you happen to be needing a *locum*.
2. But if buying a business the tiny profits convince you that there is too little trade for the lot of us.
3. Accurate bookkeeping forcibly imposed upon all would close up one-third of the private shops in less than three years.
4. Retailers do *not* need elaborate bookkeeping: that's why I invented a system for myself, which settles the trouble in ten minutes' work per week and shows your balance-sheet at a glance.
5. What we do need from the Pharmaceutical Society is to divide the Minor further than at present, and the curriculum will develop as time goes on.
6. Few of us can really afford to keep an assistant, and the present examinations only frighten men away into drug-stores, with the result that the bulk of us *never get a legal meal*: I haven't had one for twenty years!

Dispensing Difficulties and Notes.

Readers are advised to consult "The Art of Dispensing" in regard to difficulties of compounding. We welcome fresh problems for experiment and elucidation in this column, and invite the co-operation and correspondence of dispensers.

A Doubtful Eye-lotion.

Assistant (15/64) wants replies to the following:

Sod. bibor.	gr. xx.
Zinci sulph.	gr. vj.
Aq. rosæ dest. ad	℥vj.—M.

Sig.: "The Eye-lotion." To be used with an eye-cup.

(1) Should the above prescription be dispensed? (2) What is the action which takes place? [A precipitate of borate of zinc is produced in this eye-lotion, and it slowly settles on standing. If the triple rose-water is diluted with a "hard" tap-water, calcium sulphate and carbonate of zinc would also be precipitated on standing, depending on the "hardness" of the water. If the two salts are dissolved separately in 3 fl. oz. of the rose-water and the solutions mixed, a finely divided precipitate will be obtained, and the lotion may be used safely. In some pharmacies, however, it is the rule to send out all eye-lotions perfectly clear, in which case the above would require to be filtered, but the procedure cannot be justified without reference to the prescriber, who might be told that the clear lotion is a solution of sodium sulphate and borate and zinc borate, the last in very small amount.]

Legal Queries.

The majority of difficulties in regard to trade law are anticipated by the legal information printed in "The Chemist and Druggist Diary," 1914. See especially pp. 469-499.

Mana (20/56).—Read the article on Pharmacy Laws in the *C. & D. Diary*. If you are in doubt after that, write to us again.

Omega (23/55).—The sale of dutiable medicines from a stall in a market-place is illegal. See "Licence," *C. & D. Diary*, p. 489. The same applies to the sale in a market-place of known, admitted, and approved remedies by an unqualified person; he has no right to sell without a licence, and he cannot sell such medicines without stamping them.

Belfast Subscriber (18/8).—In regard to the registration of limited companies, read the article in the *C. & D. Diary*, p. 238. Read also the information on p. 474. If a pharmaceutical chemist and a registered druggist trade as a firm in Ireland as pharmaceutical chemists, the registered druggist member of the firm is liable to prosecution for offences under the Pharmacy Acts, just as if he were trading as a pharmaceutical chemist by himself.

Miscellaneous Inquiries.

We do not undertake to analyse and report upon proprietary articles, and when samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

We do not as a rule repeat information which has been given in this section during the past twelve months, as it occupies space which can be more profitably utilised for other information. In such cases the numbers are mentioned, and if querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published price, usually 6d.

D. W. & Co. (4/7).—BOOK ON INDUSTRIAL CHEMISTRY.—Blucher's "Modern Industrial Chemistry" (Gresham Publishing Co., 30*s.*) seems to be the kind of book you require. You could call at the publishers (34 and 35 Southampton Street, London, W.C.) and see the book before buying it.

Tyke (8/39).—CEMENT FOR CRACKS IN STONEWARE:

Sulphur	60
Fireclay	35
Red-lead	5

Heat together gradually, with continuous stirring, to a temperature of 250° F., and apply hot to the cracks.

Boric Acid (11/63).—(1) JAM-PRESERVATIVE.—Salicylic acid is used as a preservative for jam in the proportion of ½ oz. to 1 cwt. (2) CATTLE-BLISTER:

Powdered cantharides,	
Olive oil,	
Lanoline, of each	½ lb.

Heat for ten hours in a steam-bath, then add—

Yellow wax	4 oz.
Tar ointment	4 oz.
Turpentine oil	6 oz.

Make into a smooth ointment.

(3) REMEDY FOR WHITE SCOUR IN CALVES.—The following meets your requirements:

Powdered catechu,	
Prepared chalk, of each	2 oz.
Veterinary chlorodyne	½ oz.
Powdered anise,	
Powdered ginger, of each ...	1 oz.
Carbolic acid	10 drops
Water to make	20 oz.

Dose: One to four tablespoonfuls to be given in half a pint of gruel every four hours as required.

Mac (12/52). — (1) SHOWERPROOFING OVERCOAT. — The modern process employed for showerproofing garments consists in spraying them with a solution of paraffin wax in mineral naphtha, or else in the process of manufacture to place the cloth upon a web saturated with the solution and pass both beneath rollers, when the cloth takes up sufficient wax to give it the rain-repellent property needed. The amount of paraffin wax required to be incorporated in the cloth is very small. From these particulars you may be able to devise a means of conducting the process on the small scale. (2) SHAMPOO-POWDER.—The following answers your requirements:

Borax,	
Soap-powder, of each	1 lb.
Sodium carbonate	4 oz.
Camphor	¼ oz.
Rosemary oil	30 drops
Eucalyptus oil	1 dr.

Weigh out into packets of ʒiij.-ʒiv.

(3) An inquiry addressed to the label printers whose advertisements are given in the *C. & D.* and the *Diary* would bring you the information you require as to the stock label for hair-cream.

W. T. C. (22/361).—Unless there is a ruling in your district against proprietary articles being prescribed and dispensed for insured persons, you are at liberty to supply Cicfa tablets upon the Tariff basis—*i.e.*, minimum retail price rate *plus* the dispensing-fee.

R. W. (20/65).—The charge for liq. hydrarg. perchlor. (1 in 2,000) to an Insurance Committee should be the Tariff prices of the perchloride and distilled water *plus* the dispensing-fee.

W. S. (101/54) writes: "The Cyclopædia of Photography," under the article entitled BREATH PRINTING, says: "A curious process, due to Sir John Herschell, by which invisible, or latent, photographs may be produced, capable of development by the breath or by a moist atmosphere. A solution of silver nitrate (sp. gr. 1.200) is added to ferro-tartaric acid (sp. gr. 1.023), a precipitate falling which is nearly redissolved by a gentle heat. A yellow liquid is thus obtained in which the further addition of silver nitrate causes no turbidity. The total bulk of the silver-nitrate solution used should amount to half that of the ferro-tartaric acid. Paper sensitised with this liquid, thoroughly dried in the dark and exposed under a negative or engraving in sunshine for from thirty seconds to one minute, does not yield any visible impression unless over-exposed. To develop the latent image it is only requisite to breathe upon the paper, when a vigorous picture appears as if by magic. Or the print may be laid in a blotting-book." Our correspondent asks what this process is. We think it is simply the ferro-prussiate process, in which the latent image is developed by water—in this case the moisture of the breath. We append two methods from "Pharmaceutical Formulas":

White Lines on Blue.

A.

Potassium ferricyanide	600 grains
Water	5 oz.

B.

Green ammonio-citrate of iron ...	600 grains
Water	5 oz.

Dissolve the salts separately, then mix, and keep the solution in the dark.

The paper is sensitised by floating and dried in the dark. Expose under the negative until all the details are visible. Develop by washing with water.

This gives blue prints, weak caustic soda produces a faint yellow, tannin changes the yellow to black, alkalies alter the black to red-brown, while dilute acids change to bluish-black. Other changes in the colour can be produced by silver nitrate, mercuric nitrate, potassium chromate, sodium sulphide, and potassium permanganate.

Fisch's Formula.

Tartaric acid	3 oz.
Water	13 oz.

Dissolve and add

Ferric-chloride solution (sp. gr. 1.45)	2 oz.

Then add

Solution of ammonia (not more than 6 oz.) ...	a sufficiency till neutral

Finally add, with constant shaking,

Potassium ferricyanide ...	2 oz. 205 grains
Water	13 oz.

Mix.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," July 14, 1864.

Businesses to be Disposed of.

[*The following are selected from many advertisements in the issue, and are typical of the offers of fifty years ago.*]

IN A LARGE CORPORATE TOWN, within 40 miles of London, a Business, held 30 years by the retiring principal. Returns 600*l.* Price 500*l.*

AN UNOPPOSED COUNTRY BUSINESS, returning about 1,100*l.* yearly, with occupancy of good House and Garden, well stocked with fruit trees. Entrance 1,000*l.*

IN A WESTERN SUBURB OF LONDON, a long-established Business, capable of being largely increased. The position is an important thoroughfare. Entrance 700*l.*

TO BE DISPOSED OF, on very advantageous terms, in consequence of retirement, in one of the principal towns of Cheshire, the Business of a Chemist, Druggist, Tea Dealer and Coffee Roaster. Established upwards of 70 years. Including a proprietary medicine, which, without advertisement of any kind, has obtained for itself great celebrity, and may be raised to become one of the most popular national remedies of the day. Stock, etc., at valuation. Address, B. C., "Courier and Herald" Office, Macclesfield.

NATIONAL HEALTH INSURANCE.

HOMŒOPATHIC N.H.I. DISPENSING.
LIBERAL TERMS TO CHEMISTS.

Homoeopathic Medicines in every form supplied in bulk for N.H.I. Dispensing.

PERLOIDS and **TABLETS** are the best forms for Dispensing—the most satisfactory to the doctor and patient; insuring accuracy of dose and ease of administration, and are the *most remunerative* to the Chemist of any form of medicine on the tariff.

SEND FOR PRICE LIST AND TERMS.

Ashwell's Companion to the British & American Homoeopathic Pharmacopoeias. Price 3/6 net.

The best work of reference for Homœopathic Dispensing.

KEENE & ASHWELL, Ltd., *Manufacturing Homoeopathic Chemists,*
6 SOUTH MOLTON STREET (late 74 New Bond Street), LONDON, W.

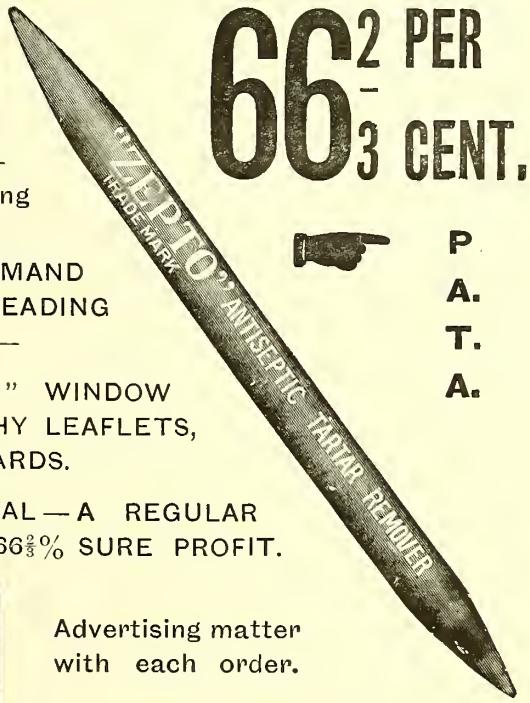
YOU MUST CLEAR 66⅔ PER CENT.

That's if you sell ZEPTO—the Pencil with the selling points.

A BIG PUBLIC DEMAND FROM ADS. IN THE LEADING PERIODICALS, plus :—

REAL "PULLING" WINDOW DISPLAYS, PITHY LEAFLETS, AND SHOWCARDS.

SUM TOTAL—A REGULAR SALE & 66⅔% SURE PROFIT.



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PRICE: **4/6** PER DOZ.

Retail at 7½d.

ZEPTO
THE SURE SELLER
Write for latest advertising schemes etc to
THOS. CHRISTY & CO., Old Swan Lane, London, E.C.

Advertising matter with each order.

This is one of the Artistic Showcards that attract big business.

Send word for further particulars, or, better still, a trial order, to:—

THOS. CHRISTY & CO.
4, 6, 8, 10 & 12 Old Swan Lane, London, E.C.

Telegrams: "Christyfen, Cannon, London." Telephones: City 4278–4279.

STANDARD PRODUCTS OF INTERNATIONAL REPUTATION.

Ether DUNCAN

Chloroform DUNCAN

Ethyl Chloride DUNCAN

MANUFACTURED ONLY BY

DUNCAN, FLOCKHART & CO.,
EDINBURGH & LONDON.

TOOTHACHE CURED AT ONCE

by "Gotar" Tablets.

Everyone suffers with Toothache at some period of their lives, therefore *everyone wants "Gotar."*

CONSIDER THE PUBLIC AND STOCK "GOTAR" TABLETS.

On attractive Showcards of 6 and 12 Boxes. Advertised largely. Liberal terms.

"Gotar"

TOOTHACHE
TABLETS.

Order of your Wholesale House,
or of
GOTAR CO.
62 STRAND, LONDON.

B & S Brand **B & S Brand**

COCAINE BOEHRINGER

SULPHATE OF QUININE AND ALL CINCHONA PREPARATIONS.

Acetanilid, Atropine, Caffeine, Chloral-Hydrate, Codeine, Coumarine, Eserine, Hydrastine, Hydroquinone, Lactophenine, Phenacetin, Pilocarpine, Pyrogallic Acid, Resorcine, Santonine, Terpin-Hydrate, Veratrine, etc.

C. F. BOEHRINGER & SOEHNE, MANNHEIM-WALDHOF (Germany).

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T. MORSON & SON

Manufacturers of

BISMUTH SALTS

Light, White, and Bulky.

CITRATES

OF

Potassium and Sodium.

Powder, Gran., or Large Cryst.

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OF

Ammon. Calc., Potash and Soda.

SODIUM SULPHATE, B.P.

Pea Cryst. or Feathery.

T. MORSON & SON

14 Elm St., Gray's Inn Road, W.C.

T. & H. SMITH LTD.

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MORPHINE : STRYCHNINE : CHLOROFORM

CODEINE	CAFFEINE	SALICIN
ALL	ALOIN	PODOPHYLLIN
OPIUM	GINGERIN	JALAP RESIN
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BLANDFIELD WORKS, EDINBURGH : 22 CITY ROAD, LONDON, E.C. : 37 WASHINGTON STREET, GLASGOW.

Expurgo Anti-Diabetes

The only reliable and thoroughly satisfactory Remedy for Diabetes-Mellitus which has a record of complete cures.

REPORT FROM A PROMINENT PHYSICIAN.

I am satisfied your preparation has cured several of my patients. Expurgo Anti-Diabetes is particularly effective in combating and neutralising the diabetic poisons and in completely eliminating the sugar excretion characteristic of this disease.

The Medical Faculty is also recommended to try Expurgo Lapis—a particularly valuable preparation in the treatment of Gall Stones, Kidney and Bladder Stones and Gravel.

Expurgo Anti-Diabetes, per bottle 8/-, less 25%
Expurgo Lapis - per bottle 6/-, less 25%

Carriage paid on orders of 1 dozen.

THE EXPURGO MANUFACTURING CO.,
815 North Clark Street, CHICAGO, ILL., U.S.A.

Distributing Agents: Rocke, Tompsitt & Co.,
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TURKISH OPIUM

Direct from the Growers.

PURE NATURAL GUM

Free from adulteration. Supplied in 11lb. tins by

GEORGE GATHERAL, British Post Office Box No. 193,
CONSTANTINOPLE - TURKEY.

Post samples sent on application.

Ampoule Files

THE GREATEST PRODUCTION
IN THE WORLD.
THE BEST. THE CHEAPEST.

Prices and Samples sent on application to—

SIM LTD., Morges, Switzerland.

Blyton, Astley & Company

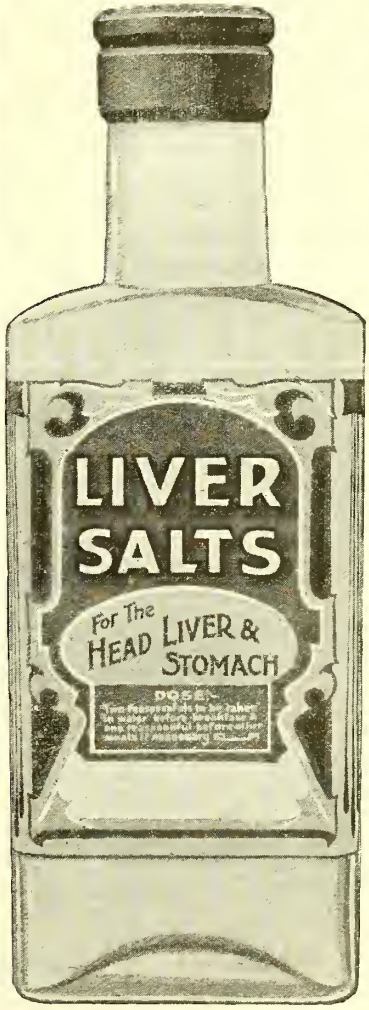
Manufacturing Pharmaceutical Chemists

EAGLE LABORATORIES, LOWER BROUGHTON

MANCHESTER.

A fast selling line.
Name and address on orders for 3 dozen.

Coloured Wrapper used on cartons.
Sell at 1/3 or 1/6.
Name and address on 3 dozen.



Name and address
on orders for 3 dozen.

PRECIPITATED CRETA PRÆCIP.

"Sturge's Chalk."

Lightest on the Market.

CHALK.

All grades from the **LIGHTEST** to **VERY DENSE.**

MANUFACTURED BY

JOHN & E. STURGE, Ltd., 18 Wheeleys Lane, BIRMINGHAM.

Agents:

THE NATIONAL ANILINE & CHEMICAL CO., 100 William St., NEW YORK.
ALPHONSE RUCH, 63 Rue des Archives, PARIS.

Also Manufacturers of—

CITRIC ACID, BICARBONATE OF POTASH, ROCHELLE SALTS and pulv. SEIDLITZ, FLUID MAGNESIA, and "CITRATE OF MAGNESIA," and other Effervescent Saline Preparations.

Telegrams: "Sturgeon Birmingham."

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WE WARN BUYERS that fraudulent and ineffective articles, purporting to be Ichthyol, or "equal to Ichthyol," are offered by unscrupulous dealers.

GENUINE ICHTHYOL, as it has been studied and is wanted by the Medical Profession and supplied all the time to the Trade, is delivered by us in tins and bottles under our special label with our name, and can be obtained in original packing from any wholesale druggist in the U. K. The use of our Registered Trade Marks "ICHTHYOL" and "ICHTHYOLATE" for any other product means deception and dishonesty, and will entail their penalties.

PHYSICIANS, CHEMISTS, and DRUGGISTS are requested to report to us all cases where imitation products are suspected.

Ichthyol-Gesellschaft,
Cordes, Hermanni & Co.,
HAMBURG.

NOTICE.

MILK EMULSION.

The name "Milk Emulsion" is our Trade Mark for an Emulsion of Cod Liver Oil with Hypophosphites, and designates specifically that it is our preparation. Our Emulsion is known in commerce as "Milk Emulsion," and when "Milk Emulsion" is ordered, people expect to receive FAULDING'S MILK EMULSION. We hereby give notice that no other persons can use the same name on their labels, wrappers or advertisements without infringing our legal rights

"Milk Emulsion" is sold in Bottles only, Wholesale, by—

F. H. FAULDING & CO.,

54 Great Tower Street, London, E.C.
54 King William Street, Adelaide, South Australia.
313 Murray Street, Perth, Western Australia.
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DARMSTADT, Germany.

Headquarters for all European Pharmaceutical **Crude Drugs,** Kitchen Herbs, etc.; also **Importers** of Colonial and Exotic Drugs (Jaborandi Leaves, Manaca Root, GUM CHICLE, etc.)

PURE Chemicals, Dressed Drugs, Pharmaceutical and Alcoholic Preparations, Methylated Spirit.

Special for the **TROPICS: ANT EXTERMINATORS.**

All Correspondence promptly and courteously attended to.

PRICES ISSUED WEEKLY.

Original Packages can generally be supplied at the Current Prices quoted in the Trade Report of this Paper on Terms as below.

*Acet. Ipecac. B.P., 7 lbs. @ 1/5 lb.
*Acid. Acet. Glacial., 99%, Carboys, 160 lbs. @ 4½d. lb.; 12 6-lb. bots.@ 7d. lb.; 6 lbs. @ 8d. lb.
„ Acetylo-Salicyl., 1 cwt. @ 1/10½ lb.; 56 lbs. @ 1/11 lb.; 7 lbs. @ 2/2 lb.; 1 lb. @ 2/5 lb.
„ Carbol. Xtls., 39/40; 56 lbs. @ 5d. lb.; 10 lb. Tins @ 6/- each; 36 1-lb. Bots. @ 9½d. lb.; Single Bots. @ 1/- lb.; Detached Cryst. 10 lb. Tins @ 8/- each; 1 lb. @ 1/2 lb.; Crude Black, 45 gall. casks @ 1/- gall.; 5 gall. drums @ 1/4 gall.; 1 gall. tins @ 1/6 each.
* „ Salicyl. pulv. 7 lbs. @ 1/1 lb.; phys. pure, 1 lb. @ 2/11 lb.
„ Tart., cryst. or pulv., B.P., 1885, 1 cwt. @ 1/1 lb.; 7 lbs. @ 1/2 lb.; parv. ¼d. lb. extra.
Aloes Barb., English ground, 28 lbs. @ 84/- cwt.; 7 lbs. @ 10d. lb.
Ammon. Brom., P.B., 7 lbs. @ 2/3½ lb.
Ammon. Carb. lump, 3 cwt. @ 4d. lb.; 28 lbs. @ 5½d. lb.; 7 lbs. @ 5¾d. lb.; powder, ½d. lb. extra.
Amyli Pulv. 10 cwt. @ 11/6 cwt.; 2½ cwt. @ 13/- cwt.; 1 cwt. @ 15/- cwt.
*Aqua Anethi Conc. 1-40, 1 lb. @ 2/11 lb.
* „ Aurant. Trip., 53 lbs. for 17/6; 6 lbs. @ 7d. lb.
* „ Aurant. Conc., 1-40, 1 lb. @ 6/1 lb.
* „ Rosæ Trip., 53 lbs. for 22/6; 6 lbs. @ 7d. lb.
* „ Rosæ Conc. 1-40, 1 lb. @ 7/- lb.
* „ Samb. Trip., 53 lbs. for 23/6; 6 lbs. @ 8d. lb.
* „ Menth. Pip. Conc., 1-40, 1 lb. @ 3/- lb.

Bals. Copaibæ, pure, 44 lbs. @ 2/- lb.; 9 lbs. @ 2/1 lb.; 1 lb. @ 2/6 lb. [lb.
„ Peruv., P.B., 7 lbs. @ 7/6 lb.; 1 lb. @ 8/-
Ferri et Quininæ Cit. P.B., 500 ozs. @ 5¾d. oz.; 100 ozs. @ 6d. oz.; 25 ozs. @ 6¾d. oz.
Fol. Hyoscyam. Bien., 7 lbs. @ 5/- lb.; pulv., 4/6 lb.

Glycerin. Opt. D.D., 1.260 P.B., 1 cwt. @ 100/- cwt.; 56 lbs. @ 101/- cwt.; 12 lbs. @ 1/1 lb.

Hydrargyrum, P.B., 75-lb. bottle @ £7/2/6; 10 lbs. @ 2/2 lb.; 1 lb. @ 2/6 lb.; Ammon., 28 lbs. @ 3/1 lb.; c. Creta, 28 lbs. @ 1/5 lb.; Iodid. Rub. 28 lbs. @ 11/3 lb.; Oxid. Rub., 28 lbs. @ 3/1 lb.; Perchlor., Lump. 28 lbs. @ 2/4½ lb.; Subchlor., 28 lbs. @ 2/10 lb.; Sulph. c. Sulph., 28 lbs. @ 2/6 lb.; 7-lb. quantities 1d. lb. extra, 3-lb. quantities, 2d. lb. extra, 1-lb. quantities 3d. lb. extra.

Ichthyol Ammon. 3 lbs. @ 10/9 lb.; 1 lb. @ 11/- lb.; chemical equivalent: Ammon. Ichthosulphonas, 7 lbs. @ 5/- lb.; 1 lb. @ 5/6 lb.
*Inf. Aurant. Conc., 1 to 7, 6 lbs. @ 1/3 lb.
* „ Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/3 lb.
* „ Buchu Conc., 1 to 7, 6 lbs. @ 2/2 lb.
* „ Calumbæ Conc., 1 to 7, 6 lbs. @ 11d. lb.
* „ Caryoph. Conc., 1 to 7, 6 lbs. @ 1/- lb.
* „ Cascarilla Conc., 1 to 7, 6 lbs. @ 1/4 lb.
* „ Cinchonæ Acid, 1 to 7, 6 lbs. @ 1/7 lb.
* „ Gentianæ Co., 1 to 7, 6 lbs. @ 1/1 lb.
* „ Quassiæ Conc., 1 to 7, 6 lbs. @ 9d. lb.
* „ Rhei Conc., 1 to 7, 6 lbs. @ 1/6 lb.
* „ Rosæ Acid. Conc., 1 to 7, 6 lbs. @ 1/8 lb.
* „ Senegæ Conc., 1 to 7, 6 lbs. @ 2/4 lb.
* „ Valerian Conc., 1 to 7, 6 lbs. @ 1/3 lb.
Insect Powder, Opt., English Grd., closed flowers, 28 lbs. @ 1/10 lb.; 7 lbs. @ 1/11 lb.; English Ground, ½ closed flowers, 4d. lb. less; Foreign Ground, 1 cwt. @ 80/- cwt.; 28 lbs. @ 9d. lb.

Papain, 1-80, 1 lb. @ 16/6 lb.; 1 oz. @ 1/4 oz.
Paraffinum Durum, B.P., 2 cwt. @ 3d. lb.; 1 cwt. @ 3½d. lb.; 56 lbs. @ 3¾d. lb.; 7 lbs. @ 4¾d. lb.; Molle Flav., B.P., 3½ cwt. @ 20/- cwt.; 1 cwt. @ 30/6 cwt.; 28 lbs. @ 4d. lb.; 7 lbs. @ 4½d. lb.; Alb. B.P., 3½ cwt. @ 58/- cwt.; 28 lbs. @ 7½d. lb.
Paraldehyde, B.P., 7 lbs. @ 2/- lb.; 1 lb. @ 2/3 lb.
Pepsin, B.P., 10 lbs. @ 9/4 lb.; 1 lb. @ 10/- lb.
Phenacetin, P.B., pulv., 1 cwt. @ 2/11 lb.; 7 lbs. @ 3/1 lb.; 1 lb. @ 3/4 lb.
Phenazone, P.B., 7 lbs. @ 6/11 lb.; 1 lb. @ 7/6.
Phenolphthalein, 7 lbs. @ 5/6 lb.; 1 lb. @ 6/- lb.
Pix. Burgund., Druggists', 1½ cwt. @ 25/6 cwt.; 7 lbs. @ 4½d. lb.
Potas. Acetas. Gran. P.B., 28 lbs. @ 1/1 lb.; 7 lbs. @ 1/2 lb.
Potass. Brom. P.B., 1 cwt. @ 1/7½ lb.; 28 lbs. @ 1/8 lb.; 7 lbs. @ 1/9 lb.
Potass. Cit., B.P., 7 lbs. @ 2/7 lb.
Potass. Permang., Cryst., 1 cwt. @ 40/- cwt.; 7 lbs. @ 5d. lb.; large cryst., 7 lbs. @ 6d. lb.

Rad. Ipecac. Rio., 7 lbs. @ 9/3; 1 lb. @ 9/6.
Rad. Jalap, English Ground, 28 lbs. @ 1/3½ lb.; 7 lbs. @ 1/4½ lb.
Rad. Rhei, E.I., English Ground, 1 cwt. @ 1/3 lb.; 28 lbs. @ 1/6 lb.; 7 lbs. @ 1/7½ lb.

Saffron, Valentia, B.P., 7 lbs. @ 44/- lb.; 1 lb. @ 45/- lb.; 1 oz. @ 3/3 oz.
Salicinum, B.P., 1 lb. @ 16/6 lb.
Salol, B.P., 7 lbs. @ 1/11½ lb.; 1 lb. @ 2/3 lb.
Santoninum, P.B., 7 lbs. @ 121/- lb.; 1 lb. @ 123/6 lb.

OUR NEW DETAILED LIST IS NOW READY.

Bals. Sulphur, 7 lbs. @ 8d. lb. [lb.
„ Tolut. B.P., 50 lbs. @ 2/8 lb.; 1 lb. @ 3/9
Benzo-Naphthol, 7 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.
Bismuth, P.B., Carb., 28 lbs. @ 8/8 lb.; 7 lbs. @ 8/10 lb.; 3 lbs. @ 9/1 lb.; 1 lb. @ 9/3 lb.; subnit. 1/- lb. less.
Boracic Mixture, 1 cwt. @ 43/6 cwt.
Borax, 1 cwt. @ 19/6; powder 1/- extra.
Butyl Chloral Hydras., P.B., 1 lb. @ 8/10 lb.

Calcii Carb. Præcip., 5 cwt. @ 13/- cwt.; 1 cwt. @ 16/- cwt.; 28 lbs. @ 21/- cwt.
Camphor, English Flowers, "not artificial," 5 lbs. @ 2/- lb., ½ oz., or ¼ oz. 7 lbs. @ 2/- lb.
Cetaceum, No. 1, fine white, 64 lbs.@11½d. lb.; 7 lbs. @ 1/1 lb.; powder, 7 lbs. @ 1/6 lb.
Cocaine Hydrochlor., B.P., 25 ozs. @ 4/4 oz.; 4 ozs. @ 4/10 oz.; 1 oz. @ 5/6 oz.
Cream Tartar, 98% powder, 1 cwt.@101/- cwt.; 7 lbs. @ 1/- lb.
Cubebæ, English Ground, 7 lbs. @ 1/11 lb.

Emulsio Ol. Morrhuæ, 5 lbs. @ 11d. lb.
*Ess. Pear (artificial), Jargonelle, 5 lbs. @ 2/- lb.; Bergamot, 2/6 lb.
*Ess. Pineapple, 5 lbs. @ 3/4 lb. [lb.
*„ Raspberry, 5 lbs. @ 2/2 lb.; 1 lb. @ 2/6
*„ Vanilla Beans, 5 lb. @ 4/4 lb.; 1 lb. @ 4/7 lb.
*Ext. Belladonnæ Liq., B.P., 5 lbs. @ 4/3 lb.; 1 lb. @ 4/8 lb.; solid, 7 lbs. @ 4/3 lb.
Ext. Cascara Sag. Liq., B.P., 1 cwt. @ 1/0½ lb.; 10 lbs. @ 1/2 lb.
*Ext. Ergot. Liq. P.B., 5 lbs. @ 4/- lb.; 1 lb. @ 4/6 lb.

Ferri Ammon. Cit., P.B., 28 lbs. @ 2/6 lb.; 7 lbs. @ 2/7 lb.
Ferri Carb., 1 cwt. @ 21/- cwt.; 28 lbs. @ 3d. lb.

Lin. Camph. P.B., 40 lbs. @ 1/- lb.; 9 lbs. @ 1/1 lb.
*Liq. Ammonii Acetatis Conc. 1-7, 6 lbs. @ 8d. lb.; 1 lb. @ 1/- lb.
* „ Ammon. Aromat., 6 lbs. @ 9d. lb.
* „ Antim. Chlor. Pure, 8 lbs. @ 6½d. lb.
* „ Arsenicalis, B.P., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.
* „ Arsenii Hydrochlor., P.B., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.
* „ Bismuth, P.B., 6 lbs. @ 1/1 lb.
* „ Copaiba Buchu et Cubeb, 5 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.
* „ Easton., p.s. 1-3, B.P., 1 lb. @ 3/- lb.
* „ Ferri Dialysatus, 6 lbs. @ 7d. lb.
* „ Ferri Iod. p.s., 1-7, 1 lb. @ 7/6 lb.
* „ Ferri Perchlor. Fort., P.B., 7 lbs. @ 4d. lb.
* „ Ferri Phosph. Co. p.s., 1-7, 7 lbs. @ 1/6 lb.
* „ Hamamelidis, B.P., 6 lbs. @ 1/1 lb.
* „ Hypophosph. Co. p.s., B.P.C., 1 lb. @ 3/4 lb.
* „ Iodi Fort, B.P., 5 lbs. @ 5/6 lb.

Methyl Acetanilide (Exalgin), 4 oz. @ 1/1 oz.; 1 oz. @ 1/5 oz.

Naphthalene, Candles or Balls, 1 cwt.@13/6 cwt. 56 lbs. @ 16/- cwt.; 28 lbs. @ 16/- cwt.

Ol. Caryoph. Ang., B.P., 9 lbs. @ 4/3 lb.; 4½ lbs. @ 4/5 lb.
Ol. Eucalypt., B.P., 1 cwt. @ 1/4 lb.; 28 lbs. @ 1/5 lb.; 9 lbs. @ 1/7 lb.
Ol. Juniperi Bacc., B.P., 4½ lbs. @ 3/8 lb.; 1 lb. @ 4/1 lb.; Ligne Exot., 1 cwt. @ 1/2 lb.; 28 lbs. @ 1/4 lb.; 9 lbs. @ 1/5 lb.
Ol. Olivæ, P.B., good yellow, guaranteed pure, 45 gall. barrels @ 4/10 gall.; 2 gall. tins @ 5/9 gall.
Ol. Origani Rub., Coml., 28 lbs. @ 1/10 lb.; 9 lbs. @ 2/- lb.

Sapo Cast. Alb., 10 cwt. @ 28/6 cwt.; 2 cwt. @ 30/- cwt.; 7 lbs. @ 4d.; pulv., 1 cwt. @ 65/- cwt.; 56 lbs. @ 68/- cwt.; 7 lbs. @ 8d. lb.; Animal pulv., 1 cwt. @ 70/- cwt.; 56 lbs. @ 72/- cwt.; 7 lbs. @ 9d. lb.
Soda Cit., B.P., 3 lbs. @ 3/0½ lb.
Sodii Salicyl. Pulv., 7 lbs. @ 1/5 lb.; phys. pur., 28 lbs. @ 2/1 lb.; 1 lb. @ 2/4 lb.
Sodii Bromid., P.B., 7 lbs. @ 2/1½ lb.
Strychnina Cryst. B.P., 25 ozs. @ 1/9½ oz.; 1 oz. @ 2/1 oz.; Hydrochlor. and Sulphate, 2d. oz. less.
*Syr. Aurant. P.B., 7 lbs. @ 9½d. lb.
* „ Easton, B.P., 7 lbs. @ 1/0½ lb.
* „ Ferri Iodid. P.B., 7 lbs. @ 1/5 lb.
* „ Ferri Phosph. Co., 7 lbs. @ 5½d. lb.
* „ Hypophosph. Co. B.P.C., 7 lbs. @ 9½d. lb.
* „ Pruni Virg. B.P., 8 lbs. @ 7½d. lb.
* „ Rhamni, 7 lbs. @ 10½d. lb.
* „ Rhei, P.B., 7 lbs. @ 8d. lb.
* „ Scillæ, P.B., 7 lbs. @ 5d. lb.
* „ Sennæ, P.B., 7 lbs. @ 8½d. lb.
* „ Tolut, P.B., 7 lbs. @ 8½d. lb.

Thymol, 7 lbs. @ 8/3 lb.; 1 lb. @ 9/- lb.
Tinct. Aurantii Recens., B.P., 5 lbs. @ 3/6 lb.; bond, 8½d. Aquos, 10d. lb.
*Tinct. Belladon., B.P., 5 lbs. @ 2/11 lb.; bond, 6½d. Aquos, 1/- lb.
*Tinct. Benzoini Comp., P.B., 5 lbs. @ 3/6 lb.; bond, 10d.
*Tinct. Camph. Comp. P.B., 5 lbs. @ 2/5 lb.; bond, 6¾d. Aquos, 1/1 lb.
*Tinct. Cantharidis, P.B., 5 lbs. @ 3/9 lb.; bond, 6d. lb.
*Tinct. Capsici, B.P., 5 lbs. @ 3/3 lb.; bond, 6d. lb. Aquos, 10d. lb.
*Tinct. Card. Comp., P.B., 5 lbs. @ 2/8 lb.; bond, 7½d. lb. Aquos, 1/- lb.

*Minimum quantity at these prices; Home Trade, 3 Winchester Quarts assorted; Export, 12 Winchester Quarts assorted.

NOTE.—Only terms Net Cash with order without discount, or orders accepted through London Merchants or Bankers. Goods carriage forward; all packages free; Export cases extra.

ALLIANCE DRUG & CHEMICAL CO., LONDON.

Offices: 34 LEADENHALL STREET.

KINDLY DETACH THIS SHEET AND PLACE IT IN YOUR BUYING BOOK.

EMETINE HYDROCHLORID. (Whiffen's)
EMETINE HYDROBROMID. (Whiffen's)
For Hypodermic Injection.

The New Remedy in Amœbic Disease.—Vide *British Medical Journal*, Aug. 24, 1912, pp. 405–408.

Emetine for Hæmoptysis: Vide *Press Médicale, Paris*, September 24.—"The result is surprising, hæmorrhage from the lung ceasing at once."—Prof. C. FLANDIN.

May be obtained by ordering Whiffen's Brand, from all Chemists and Wholesale Drug Houses in the United Kingdom and Abroad.

WHIFFEN & SONS, LIMITED, BATTERSEA, LONDON, S.W. Telephone—254 and 255 BATTERSEA.

ESTABLISHED 1772.

HENRY'S CALCINED MAGNESIA

Continues to be prepared with scrupulous care, in the greatest chemical purity, by
Messrs. THOMAS & WILLIAM HENRY, 11, East Street, St. Peter's, Manchester,
And is sold in Bottles, authenticated by a Government Stamp bearing their name. Trade Mark, "Henry's Calcined Magnesia."
PRICE 4s. 6d. or 2s. 9d.

NEW YORK: Messrs. SCHIEFFELIN & CO., William Street. PARIS: Messrs. ROBERTS & CO., 5, Rue de la Prix.

GOLD MEDAL, Cape Town International Exhibition, 1904-5.

"LIQ. SANTAL. FLAV. c. BUCHU ET CUBEBA"
(HEWLETT'S).

THE ORIGINAL PREPARATION

Many pharmacists have assured us that even when the name **"HEWLETT'S"** is not appended to the above title they invariably dispense HEWLETT'S preparation, as they know from experience that it is the best, that it keeps indefinitely, and universally gives satisfaction, whilst imitation preparations vary so considerably, not only from the **original** but from each other, that patients notice the difference, and complain.

Price **11s.** per lb., packed, for dispensing only, in 10, 22, 40, and 90 oz. Bottles.

INTRODUCED AND PREPARED ONLY BY
C. J. HEWLETT & SON, Ltd., Wholesale and Export Druggists
35 TO 42 CHARLOTTE STREET, LONDON, E.C.

THE LEADING LINE IN PATENTS

QUICKEST SALES

BEECHAM'S PILLS

May now be had in **£5** Lots, at Lowest Prices, Carriage Paid. Packages Free.

ORDERS must be accompanied by Cash. Cheques to be made payable to Thomas Beecham, and crossed "Parr's Bank, Limited, St. Helens."

		Per Dozen.
PRICES.—Beecham's Pills,	13½d. size (56 pills)	.... 9/6
"	2s. 9d. " (168 ")	.... 25/-

ADVERTISING MATTER to suit Retailers' requirements will be sent on application.

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ATKINSON & BARKER'S
ROYAL
INFANTS' PRESERVATIVE

ON P.A.T.A. LIST.

Prices and Terms on application to R. BARKER & SON,
11 Russell Street, C.-on-M., MANCHESTER.

DOES NOT CONTAIN any SCHEDULED POISON.

"SOLAZZI" LIQUORICE JUICE

THE CHEMISTS' BRAND.

'The Lancet' says: 'Of Standard Purity'

Recommended also by *The British Medical Journal, Health, The Chemist and Druggist, Food and Sanitation.*

Ask for SHOWCARDS and HANDBILLS. To be obtained of all Wholesale Houses.

The new PURE LIQUORICE Juice.

APOLLO

Made by the largest Liquorice Manufacturers in the World. Is the concentrated extract of the richest root. Contains no added substance whatever. It is very soluble, smooth to the tongue, and entirely free from grit. It is made where the root grows, under supervision of English staff. Is not a sweetmeat but a high-class Pharmaceutical article.
"APOLLO" IS VERY HIGH IN GLYCYRRHIZIN.

CUSHION SHAPED
LIQUORICE and MENTHOL
PELLETS.

THE ORIGINAL AND THE BEST.

3s. 6d. per lb. Also in Tins at 2/- and 4/- doz.

ERNEST JACKSON & CO.,

Telegrams: "Jackson Crediton."

Crediton, & Plantain Place, Crosby Row, Borough, S.E.

MENTION

ROBINSON'S MAKE

WHEN ORDERING FROM
YOUR WHOLESALE HOUSE
YOUR NEXT SUPPLY OF

PILL BOXES

BRITISH MADE BY BRITISH LABOUR

SUPPORT HOME INDUSTRIES

ROBINSON & SONS, LTD.

BOXMAKERS TO THE
CHEMIST TRADE

CHESTERFIELD.

GOOD!

IT'S MASON'S

EXTRACT OF HERBS.

The Drink for the Masses.

Millions of Glasses used daily by workers all over the Empire.

A CONSTANT USER SAYS:

Scole, Norfolk.

Gentlemen—

For years I took a glass of Malt Liquor before dinner to create an appetite, as I was a poor feeder. Some months ago I heard of your Extract for making Beer. I gave it a trial and have ever since used it as a substitute for the other, and the result is most satisfactory. After being bottled a few days it is as bright and sparkles like bottled Ale. Since taking it I have been free from the cruel pains of Indigestion from which I had suffered a long time. Now instead of going to the "public house" in the evening for my usual glass, I smoke my pipe at home, drink my Herb Beverage and enjoy it, go to bed and sleep soundly. I have recommended it to many others, who have tried it with like results. Your Agent here thought I ought to give you a testimonial.

I am, Sirs, yours truly, J. W.

Besides being a grand refresher, Herb Beer made from

MASON'S EXTRACT OF HERBS

is cheap. For **2d.** you can make a gallon of the most wholesome and invigorating beverage you ever tasted.

Please allow us to Sample and Quote—

Citrate Magnesia

Health Salt

Salines

Liver Salt

Blood Salt

Sulph.&Sarsap.Salt

Lemonade

Crystals, &c.

NEWBALL & MASON,
NOTTINGHAM.

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, JULY 11, 1914.

Telephone Number: Bank 852 (two lines). Telegraphic Address: "Chemicus, Cannon, London" (charged as two words).

A COPY OF THIS SUPPLEMENT IS INSERTED IN EVERY NUMBER ISSUED OF "THE CHEMIST & DRUGGIST."

OVER 12,000

Copies of this Supplement are circulated **EVERY WEEK** to business men connected with the Chemical and Drug Trades. The **GUARANTEED CIRCULATION IS NEVER UNDER TWELVE THOUSAND.** This numerical distinction of the "C. & D." Supplement is one of the grounds of its popularity and power. There are others, chief of them in the esteem of those who advertise in it is that it brings the results wanted, therefore—

IT PAYS TO PAY FOR ADVERTISING IN THIS SUPPLEMENT

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—LONDON (South Side of Thames, Residential Locality).—Good-class Retail and Dispensing Business, situate in busy main thoroughfare; returns £1,420, present rate; *net income after paying every expense* £300; price £1,000, or offer.

2.—SOUTH OF LONDON (High-class Suburb).—Branch establishment; much neglected; returns £600; scope for extension under the personal supervision of a principal; handsome, well-appointed shop; price £480, less than the value of stock and fixtures.

3.—KENT (Suburban).—Price about £350; Retail, Dispensing, and Photographic, with large sale of Proprietary Articles; returns about £750, present rate less; *gross profit* 40 *per cent.*; large shop, corner position; excellent opening for N.H.I. Dispensing; illness cause of sale.

4.—LONDON, S.E.—Good-class Dispensing and Family Retail Business, chiefly ready money; good position; returns £1,460, *with excellent profits*; price £750; illness cause of sale.

5.—LONDON, N.—Established Business; held by vendor upwards of 25 years; returns average £850; corner shop, position unique; to effect a speedy sale the sum of £400 will be accepted.

6.—ON THE RIVERSIDE.—Good-class Retail and Dispensing Business, returns £1,200; *net profit* £300; vendor estimates value of stock and fixtures at £600; price £800.

7.—YORKS (Death Vacancy).—Retail and Dispensing Business; returns about £800; *net profit* £250; immediate sale necessary; terms of payment could be arranged to suit purchaser.

8.—LEICESTERSHIRE (Market Town).—General Retail, N.H.I. Dispensing including some Optical and Dentistry; returns £1,100; price £675, or valuation of stock and fixtures; *net profit* £325; books open to inspection; double-fronted shop, fairly fitted and thoroughly stocked.

9.—WORCS.—Situate in a main thoroughfare; good Ready-money Business; returns £1,600 per annum; *profit* £300 *yearly net*; modern fitted shop, fully stocked; price to be arranged; equitable terms only required.

10.—YORKS (Large Town).—Good-class Dispensing and Retail Business; held by vendor many years; returns between £1,300 and £1,350; well-appointed shop and residence; price £900, about the value of stock and fixtures.

11.—SUSSEX.—Unopposed Business; returns £546 last year, scope for extension; *net profit* £150 (proof given); comfortable residence, with garden and conservatory; rent £12 10s. per annum; price £375, or offer entertained.

12.—MIDLANDS.—Mixed Agricultural Business; good medium-class trade; returns average £600 yearly; large residence; moderate rental; price £550.

13.—MIDLANDS (Large Town).—Ready-money Business, main thoroughfare; returns average over £650; *gross profit* 50 *per cent.*; no immediate opposition; price £250, less than the value of stock and fixtures.

14.—KENT.—Branch Business; returns under manager £500; *net profit* £200; no opposition; price £350.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.**, can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

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Licensed Valuers,

73 LAUREL ROAD, LEICESTER.

Telegrams, "Brett Leicester." Telephone 1934.

F. J. BRETT, M.P.S.,

GIVES PERSONAL ATTENTION TO ALL VALUATIONS.

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AGENCY.—We have always a large number of *Buyers* on our books, and we can frequently find a purchaser at once. We also have a *Private Register* for vendors who are in no hurry to sell, and who do not wish their businesses to be advertised.

STOCKTAKING SPECIALISTS to the Entire DRUG TRADE.

£1,500 returns.—YORKS.—Good-class Light Suburban Retail and Dispensing; net profit £300; at valuation of stock and fixtures, about £900.

£1,100 returns.—LEICESTERSHIRE. — Good-class Retail in pleasant town; net profit (proved) nearly £300; nominal goodwill and valuation, about £650; part cash can remain.

£1,500 returns.—WEST.—First-class Retail and Dispensing, in popular Inland Watering-place; handsomely fitted Pharmacy; net profit nearly £500; price £1,500, or reasonable goodwill and valuation of stock and fixtures.

£700 returns.—DERBYSHIRE. — General Light Retail under Assistant; capable of doing £1,000 under personal attention; valuation £400 to £500.

£1,000 returns.—YORKS.—Light Stores, with Wines; fine opening for N.H.I.; 2,000 patients pass the door; price £325.

£2,100 returns.—LANCS.—Net profit £357; fine position; enterprising man would find plenty of scope; goodwill one year's net profit and valuation, about £1,000.

£700 returns.—DEVON.—Old-established Retail, with Proprietary yielding about half of the returns; anything could be made of this, well handled; price £650.

WANTED, really good BUSINESSES, returning from £1,500 to £5,000; required for cash buyers.

Valuations conducted upon the shortest notice at moderate fees.

PARSON C. BAKER

1 MOUNTFIELD ROAD, CHURCH END, FINCHLEY, N.

Tel. No. Finchley 812.

Recommended by— BRITISH DRUG HOUSES LTD.
MEGGESON & CO., LTD.
BARCLAY & SON, LTD.

All correspondence should be addressed as above;

And at 174 VICTORIA STREET, S.W. Tel. No. Victoria 27.

Specimen businesses.

IN the centre of principal thoroughfare in popular and high-class residential South Coast town, solely in consequence of ill-health; continuously increasing Dispensing and Retail Business, now returning over £2,000; particulars on application, with reference.

EASTERN COUNTY TOWN.—Continuously increasing Light Retail, Prescribing and Family; profitable; returning about £800; good house and shop; vendor desiring to return abroad will accept less than value of stock and fixtures.

DISPENSING BUSINESS, returning £1,000, in West-End of London; high-class trade; can be much increased; price, value of stock and fixtures.

My Register contains a large number of Businesses in all parts of the country, and purchasers are requested to notify their requirements. No charge to purchasers.

Valuations for Sale, Probate or Account. Charges moderate.

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Telegraphic Address: "Tomtom."

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

MESSRS. BERDOE & FISH

Chemists' Valuers and Transfer Agents,

35 JEWRY STREET, FENCHURCH STREET, CITY.

TELEPHONE: 1809 CENTRAL.

Have the following businesses for Disposal. (No charge to Purchasers.)

SPECIAL.

NORTH OF ENGLAND.

In a most desirable and much sought after locality; a good-class Family Retail and Agricultural Business, with fine handsome premises. Returns approach £3,000 per annum, with a gross profit of about 45 per cent., and with scope for very considerable increase; stock and fixtures are worth over £2,200, and vendor will sell for a lump sum of £2,400, or a small goodwill and valuation of stock and fixtures. We can strongly recommend this as the finest thing going; privacy and a cash buyer being essential, references are required.

1.—SURREY. — High-class Business, in excellent position; formerly doing £1,400; now under manager; handsome shop, fully stocked, price £850, or offer; personally recommended.

2.—LEICS. (Busy Market Town).—Sound Light Retail; returns £1,100; net profit over £300; handsome shop, well fitted and stocked; good house; price, simply valuation or £675 lump sum; strongly recommended.

3.—S.W. OF ENGLAND.—Profitable Light Retail Business; under manager, neglected; returns £900, was doing £1,500; important market town; large house and garden; price, valuation, about £450; part can remain; stock reduced to suit purchaser.

4.—NORTH-EAST COAST. — Sound ready-money Retail; same hands 16 years, retiring; returns £1,100, increasing; net profit £470 (proof given); good position; fully stocked; price £800.

5.—SUSSEX (near Coast).—Unopposed Light Country Retail, in charming locality; easily worked; returns £500; net profit £152; nice house and garden; owner retiring; price £375, or offer.

6.—MAIDENHEAD (Death Vacancy).—£200 for quick sale; a smart Chemist's Business, in good position; has done £14 to £20 weekly; stock alone worth £250; very low rent.

7.—LONDON, S.W.—Good-class Dispensing and Light Retail, in splendid main road position; returns £1,450; good profits; handsome Pharmacy, well stocked; price £1,000, or offer.

8.—LONDON, S.E.—Good Cash Retail; few miles out; returns £1,450; net profit £450; price £800, or offer.

9.—LONDON, N.W.—Good-class Business; no cutting; returns £750; splendid position; price £500, or offer.

VALUATIONS FOR STOCKTAKING.

Messrs. BERDOE & FISH would like every Pharmacist in business to read page 48 in this year's "C. & D." Diary, and then write for our pamphlet showing the many advantages of having stock taken; with a successful business stock has a habit of increasing, more especially since the Insurance Act came into force; and if only to satisfy yourself that **you are fully insured and in a position to make an indisputable claim in case of fire** it will pay you to have it done. Our terms, which are low, can be had on application. 43 years' practical experience

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

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BRADFORD.—Old-established Light Retail Drug Business for Disposal at once; main thoroughfare, near Town Hall; reason, age; good opening for Panel. Particulars from "S. H.," 113 Bridge Street, Bradford.

CHELTENHAM.—Old-established Light Retail and Dispensing Business, returning nearly £650 at excellent profits; scarcely any Patents sold; business has not been pushed, and is capable of doing at least £1,000 a year; comfortable house; low rent; owner, leaving England, will accept £400, or first reasonable offer. Apply, 169/180, Office of this Paper.

CORNWALL.—The best Shop, the best position, the best town in the county; returns £2,090; rent £80; business can be much improved by energetic man; large roomy house; sole reason for disposal, owner retiring; first good offer accepted. Apply, "Senior," c/o Messrs. Edwards & Sons, Queen Victoria Street, London.

LAKE DISTRICT.—Returns about £2,800; genuine old-established concern; bona-fide applicants will be given full facilities for investigation. Apply, "Coniston" (167/31), Office of this Paper.

LEEDS.—High-class suburban Retail and Dispensing Business; returns £1,300; a genuine investment; every investigation courted; comfortable residence, good garden; price £900, or valuation. 165/1, Office of this Paper.

LEEDS.—Smart, compact Pharmacy, healthy suburb; Light Retail; owner, having larger business, cannot attend; rent £30; price £150; complete details given to genuine inquirer. "Pharmacist," 81 and 83 Sweet Street, Leeds.

LONDON.—Suburban Business for Disposal; established 10 years; modern fittings; splendid position; returning well over £1,200 without N.H.I.; further particulars on application; banker's reference. 167/38, Office of this Paper.

LONDON, S.W.—£150.—An opportunity occurs for a smart man with small capital to acquire a Business in thickly populated district; well stocked and fitted; big scope for N.H.I. Dispensing, also Clubs; thoroughly genuine; sound reasons for disposal. "H. J.," 42 Carholme Road, Forest Hill, S.E.

LONDON, S.W.—Doing £10 a week under unqualified (and very poor) management; smart little shop, well stocked; few Patents; good prices; plenty of scope for cheap Prescribing, Photo goods, and N.H.I. Dispensing; 7-roomed house; rent and rates under £1 a week; worth £250 to smart man; first reasonable offer secures; must sell for family reasons. Write or call, Thompson, 197 Longley Road, Tooting Junction.

LONDON, S.W.—Advertiser, having purchased West-End business, offers his Suburban one for immediate Disposal; returns £1,450, increasing; Pharmacy, double-fronted, fitted in best style and well stocked; capital position on main road; price £1,000, or near offer; open for inspection any time by appointment. 164/5, Office of this Paper.

LONDON Suburban Business for prompt Disposal; modern fittings, well stocked, good position; N.H.I. Dispensing; returns over £600; good scope for development Optic, Dental, and Photography; rent £40; house (six rooms), garden, back and private entrance; offers invited. Apply, "Aspirin" (162/21), Office of this Paper.

MANCHESTER (Suburb).—Corner Pharmacy, splendidly situated (looking down centre of thoroughfare); shop well fitted; good house; populous district; unique opportunity for energetic man with small capital, as owing to death it must be sold and no reasonable offer refused. Full particulars, "Pharmacist," 27 Palatine Buildings, Moss Lane West, Manchester.

MANCHESTER.—In one of the best suburbs, good position, with every convenience; splendidly fitted Shop; good house accommodation, separate entrance; price £350 (less than the value of stock and fittings); excellent opportunity for a man with a little extra capital. Apply, "Manchester," c/o British Drug Houses, Ltd., Graham Street, London, N.

NORFOLK (Market Town). — Old-established Business, capable of great development; returns under feeble management over £800; scope for doing at least double; vendor, who has held it 40 years, will accept valuation of stock and fixtures, about £650; £200 could remain if required. Apply, "Norfolk" (169/18), Office of this Paper.

OLDHAM.—For Disposal, a profitable Light Retail and Dispensing Business, well stocked; full Wine Licence attached; will sell at stock and valuation. Full particulars on application to 168/24, Office of this Paper.

BUSINESS for Disposal; main-road position; Prescribing and Dispensing; returns about £700 at excellent profits; good scope for increase, especially by taking up Photographics and Optics; opening for Dentistry; price £350; cash buyers only; London. 163/33, Office of this Paper.

CHEMIST'S high-class Dispensing Business for Sale, Dublin; going concern; good turnover, profits. Apply, Collins, Solicitor, 19 Eustace Street.

FORTY miles South London.—Comfortable unopposed sound old-established concern, well stocked; easily worked at ridiculously low rental; nice house and garden; lovely healthy country; owner retiring; to anyone wishing quiet life and sure £150 per annum this is a rare opportunity; reasonable price. 166/35, Office of this Paper.

IN pleasant and healthy London Suburb; Light Retail Dispensing Business; increasing; good scope for further development; returns about £11 per week; rent low; good lease; shop nicely fitted and well stocked; valuation of stock and fixtures only. "Jackson" (169/25), Office of this Paper

OLD-ESTABLISHED Business in busy working-class district of large Lancashire town; central position, almost unopposed; stock and fixtures worth over £500; returns £800, including Insurance, at good profits; owner must sell at once; good reasons; reasonable cash offer accepted. Apply, 167/19, Office of this Paper.

OLD-ESTABLISHED good-class Dispensing Business in fashionable residential part of West of England City; no N.H.I. work and practically no penny or Patent trade; present returns £642; net profit over £260; Pharmacy beautifully fitted and well stocked; owner retiring; price required £650; fullest particulars to applicants supplying references. Apply, 164/14, Office of this Paper.

OLD-ESTABLISHED Retail and Dispensing Business, S.W.; select neighbourhood; returns £450; good house; part could be let off; rent £60; price £400. "Cox" (166/15), Office of this Paper.

OLD-ESTABLISHED Retail and Dispensing Business for Sale, owing to death of proprietor; well stocked; in good position; price £250; rent £50. Further particulars apply E. Sanders, 57 Old Town, Clapham Common, S.W.

SEASIDE.—£1,000 returns; Drug Stores for Disposal; splendid chance for qualified man and for Insurance Dispensing; well fitted and stocked; several Proprietaries; net profit £275; accept £630. "A. B. C." (166/3), Office of this Paper.

£75.—Well-stocked Drug Stores, in busy Lancashire town, for immediate Sale; working-class population; takings average £8 week; comfortable eight-roomed house; rent £30 clear; Patents exceptionally low; big scope for N.H.I.; owner taking over larger concern; inquiries invited; only wants seeing. Apply, "Statim" (164/33), Office of this Paper.

£100 cash, or valuation; no goodwill; Yorkshire; Retail and Prescribing; gross weekly profit £5; rent £35; busy, go-ahead industrial town; splendid house, every convenience; vendor must sell quickly, having purchased larger concern; rare opportunity for man with limited capital. Pratt, Ph. Ch., 10 Station Road, Woodford Halse, North Hants.

£425 (about).—Good-class Retail and Dispensing Business in residential district, S.E. Durham; returns last year over £1,000 at good profits; good house and garden; books kept and open to every inspection; rent £35; owner desires larger business; value of stock and fixtures about £425. 164/11, Office of this Paper.

BUSINESSES WANTED.

DRUG and Dental Business wanted; price up to £500; must be open to every investigation and no fancy price asked. Fullest particulars in strictest confidence to "Genuine" (167/14), Office of this Paper.

DRUG Stores.—Advertiser wishes to purchase a well-established Drug Stores. 167/220, Office of this Paper.

MESSRS. BERDOE & FISH have several genuine cash buyers on their books for Businesses returning from £1,500 to £4,000; intending vendors are cordially invited to correspond; strictest privacy guaranteed. Address, Valuation Offices, 35 Jewry Street, Fenchurch Street, London, E.C.

SMALL Business required by qualified man; one capable of improvement, with scope for N.H.I. Dispensing; price must be low; London or Brighton preferred. Clark, 122 London Road, Wembley.

£5.—Advertiser will pay this sum to any Traveller who can give information (if acted on) of an opening in small town where there is real scope for Chemist, or of any neglected Business to be Sold cheaply, with good scope for increase, in South of England; all replies treated in strict confidence. 164/15, Office of this Paper.

TO LET.

TAVISTOCK, Devon.—To be Let from Michaelmas next, the commodious Shop and Dwelling-house, No. 1 West Street, situate in the centre of the town, and in which for a great many years a Chemist and Druggist business has been carried on. Particulars of Mrs. Tonkin, Spring Hill Villa, Tavistock.

EXCELLENT Shop to Let, main and busy thoroughfare; Chemist badly needed; no opposition; good opportunity. Apply, Sutch & Sons, 56 Plumstead Common Road, Plumstead. Telephone Woolwich 436.

FOR SALE.

CHEMISTS.—Counter, Shelves, Drawers, and Show-cases complete, in solid mahogany; value at £70 for probate; for immediate Disposal; no reasonable offer refused. Apply, 69 Oxford Street, Southampton.

FOR Sale, second-hand, a Cast-iron Montejus, 3,900 litres capacity, enamelled inside, 90 lb. w.p.; Copper Vacuum Pan, 3 ft. 6 in. diameter, with Gunmetal Chain Stirrer, Condenser, and Motor-driven Vacuum Pump; a Dehne Filter Press, 15 chambers, plates 24 in. square; a Cyclone Disintegrator. Apply, Bennett, Sons & Shears, Ltd., Farringdon Works, Shoe Lane, E.C.

AGENCIES.

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LONDON Pharmacist, resident New York, and member of Wholesale Chemical firm, with 15 years' established connection amongst Physicians, Pharmacists, and Hospitals, is open to accept Agencies for Novelties in Medical and Pharmaceutical lines; agents in principal cities throughout U.S.A.; references exchanged. "Novelties" (122/8), Office of this Paper.

SPAIN.—Pharmacist desires Depot or Sole Agency for foreign Pharmaceutical Specialities, Alimentary Products, Perfumery, etc.; or would undertake manufacture and packing locally. Samples, catalogues, and correspondence in Spanish or French only to Mariano de la Vega, Botica del Carmen, Oviedo.

AGENTS wanted in all parts of the world to take up the local sale of a popular Proprietary. Apply to Vichy Pastilles Co. (Vichy, London, Paris), Export Office, 8 Coptic Street, New Oxford Street, London, W.C.

EXPERIENCED Agent, calling on Wholesale and Retail Drug trade in Ireland, open to Represent a first-rate Manufacturing firm (Sundries, Packed Goods, Specialities, Soaps or Perfumery, etc.) in conjunction with present representation; can influence extensive connection; good record of reliable business; highest references. Reply, 166/19, Office of this Paper.

TO Manufacturers of Nicotine, Weed-killers, etc.—We want to get in touch with buyers of strong African Tobacco Waste and Offal in large quantities, also with firms open to act as Agents for our products in Great Britain and the Colonies and in Europe. Apply, 149/40, Office of this Paper.

APPRENTICESHIPS.

APPRENTICE.—Pharmacist wishes to recommend young lady, about 17, as Apprentice in a good-class Dispensing Pharmacy; well educated, good appearance and address, and a willing worker. J. Oliver, 303 Aigburth Road, Liverpool.

APPRENTICE.—Parents of well-educated youth wish to Apprentice him in a good-class Store and Dispensing business where he would get thorough insight; of good appearance and address; City or West-End preferred. 167/22, Office of this Paper.

APPRENTICE, youth, age 16, of gentlemanly appearance and address. Particulars from good-class Retailers only to J. A. Sargent, "Glengarry," Greenhill Park, Harlesden, N.W.

MANUFACTURING or Analytical Chemists.—Analytical Pupilage or Apprenticeship; passed Pharmaceutical Prelim. (except Latin); age 18; no premium; some salary essential; Analytical work entirely in view; no experience; school chemistry only; London or suburbs; also dad of 15½ years for same. "F.," 131 Munster Road, Fulham, S.W.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

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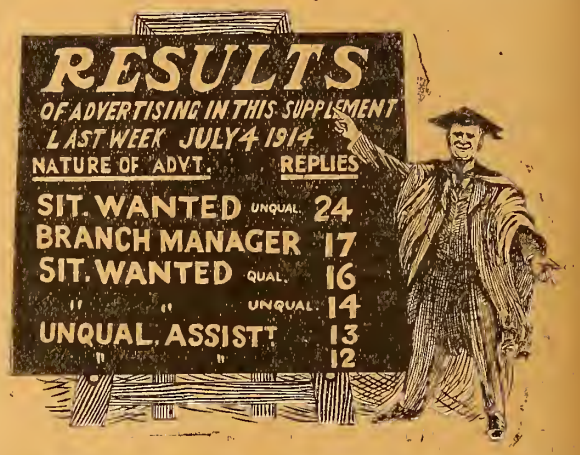

This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

RETAIL.

ABERDARE. — Wanted immediately, Welsh-speaking Junior Assistant. Forward references to Tudor Williams, Chemist, Aberdare.

BATH.—Wanted, gentlemanly Assistant, experienced, unqualified, age about 26; must be neat and accurate Dispenser and good Salesman; high-class Store, short hours; weekly half-holiday; no Sunday duties. Apply, with full particulars, references, salary, etc., to Cater, Stoffell & Fortt, Ltd., Bath.

BIRMINGHAM.—Qualified Branch Manager desiring permanency; Counter experience essential; N.H.I. and general good-class business. Apply, 166/39, Office of this Paper.

BLACKPOOL.—Wanted, an Assistant at once for about eight weeks; outdoors. Apply, with full particulars, to Gaulter, Chemist, Blackpool.

BLACKPOOL.—Junior or Improver for a few weeks; one day a week off. Apply, stating age, reference, and salary required (outdoors), to Greenwood, Chemist, 38 Central Drive, Blackpool.

BLACKPOOL District.—Smart qualified Manager, with experience of seaside trade, to take entire charge; preference given to one willing to invest up to £150; state age, salary, photo, with copy of recent references. Apply, Atkinson, The Whare, Highfield, Sale, Cheshire.

BOGNOR.—A capable, gentlemanly Assistant, used to high-class business, wanted for Bognor Branch. Apply, giving usual particulars, to Messrs. Timothy White Co., Ltd., Chandos Street, Portsmouth.

BOURNEMOUTH.—Junior Assistant required (outdoors), or an experienced Assistant for Part-time. J. H., Sharland, 152 Holdenhurst Road, Bournemouth.

BRADFORD. — Wanted, young, thoroughly up-to-date, energetic, qualified Manager; must be really capable and able to build up a big business in centre of city; salary starting £180. State fully previous experience and send photograph, 23/64, Office of this Paper.

BRIDLINGTON.—Wanted at once, smart Assistant; total abstainer; permanency for suitable man; also Junior for season. Apply, with full particulars, to Harrison, Pharmacist, Bridlington.

BRISTOL.—Qualified Manager for Branch business in working-class neighbourhood; Junior kept; good house accommodation over premises; ordinary cash counter trade, with Dispensing and some N.H.I. work; hours 8.30 to 8.30, Fridays to 9, Saturdays to 10; no Sunday duty; closed Wednesdays at 1. Apply, with full particulars of previous experience, age, height, salary required, and references, to Managing Director, Henry Hodder & Co., Ltd., 5 Nelson Street, Bristol.

BUSH HILL PARK.—Qualified Managing Assistant required immediately; indoors; very comfortable home; reasonable hours; no Sunday, Bank Holiday, or other duty. Please state experience and salary required, J. E. Hyde, Pharmacist, Bush Hill Park, Enfield.

BUXTON, Peak District.—Qualified Assistant, young, outdoors, permanency, for high-class Dispensing business. Full particulars to Pugh, Chemist.

DOUGLAS, Isle of Man.—Wanted at once, an unqualified Junior Assistant for six or eight weeks; outdoors; good Counterman and knowledge of Photography preferred, but not essential. Apply, with full particulars, references, and salary required, Gelling Bros., Chemists, Douglas, I.O.M.

DOUGLAS, Isle of Man.—Junior Assistant for about two months; outdoors; half-day weekly; Sundays, on morning or evening; no Insurance work; usual particulars. Apply, with photo and references, Greensill & Son, Douglas.

DUDLEY.—Qualified Locum, age about 30, required for two or three weeks about the middle of August; hours 9 a.m. to 9 p.m.; weekly half-holiday; no Sunday duty. Recent testimonials and salary required (outdoors) to Percy G. Richardson, Pharmaceutical Chemist, Market Place, Dudley.

FOLKESTONE.—A capable, gentlemanly Assistant, used to high-class business, wanted for Sandgate Road Branch. Apply, giving usual particulars, to Messrs. Timothy White Co., Ltd., Chandos Street, Portsmouth.

GRANTHAM.—Wanted, a competent Assistant; one accustomed to a Country business and desiring a permanency preferred; outdoors; easy hours. Apply, with full particulars, W. D. Cox, 36 Watergate, Grantham.

GUY'S HOSPITAL.—Wanted at once, qualified man as Dispenser; salary £120. Apply, Mr. H. Finnemore.

KIRKHAM.—Unqualified Assistant (outdoors), about 30. Apply, stating full particulars, height, salary required, references, send photo (which will be returned), B. Hargreaves, Kirkham, Lancs.

LANCASHIRE.—Wanted, qualified Manager, about 35; good and quick Salesman required; salary £3 per week and commission. Please give references, etc., with photo, 162/18, Office of this Paper.

LANCASHIRE.—Junior Assistant wanted for a General Retail and N.H.I. Dispensing business; outdoors; good working-class district. Full particulars to 168/14, Office of this Paper.

LEDBURY.—A competent Assistant wanted, about the end of July, for good-class Country business; married or single; permanency to good man; can live over the business. State full particulars to V. Meacham, Eastnor, Ledbury.

LEAMINGTON.—Junior or Improver. Apply, with usual particulars, to J. Price, M.P.S., 42 Bath Street, Leamington.

LIVERPOOL.—Qualified Assistant for Branch; outdoors. State experience, salary, etc., "Zingib," 1 Fairview Park Road, Liverpool.

LONDON.—Part-time Assistant required for shop in the Poplar district; must be good Dispenser and Counterman. 167/37, Office of this Paper.

LONDON.—Reliable Assistant wanted, qualified preferred, but not essential, for Dispensing and Counter; please give usual particulars in first letter. Address "Restof" (168/17), Office of this Paper.

LONDON.—Wanted, qualified Assistant for modern Cash business; progressive permanency. State age, experience, and salary required, 167/36, Office of this Paper.

LONDON.—Locum wanted, qualified, for second and third weeks in August; reliable, trustworthy. Apply, J. E. Goodall, 66 Lower Richmond Road, Putney, S.W.

LONDON, N.—Qualified Branch Manager (Junior kept); one recently qualified would suit. Apply, stating age, height, experience, and salary required (outdoors), to W. Burgess Dow, Pharmacist and Optician, 518 Hornsey Road, N.

LONDON, N.W.—Wanted, Junior Assistant (indoors), with good-class Dispensing experience. Apply, Elmer Pettinger 30 Rosslyn Hill, Hampstead, N.W.

LONDON, S.E.—Wanted, unqualified Assistant or Junior; outdoors. Apply, by letter or personally, to J. W. Rumsey & Son, 481 Lordship Lane, S.E.

LONDON, S.W.—Marshall & Co., 93 Streatham Hill, have vacancy for a competent gentlemanly Assistant; unqualified; outdoors; good-class business; an accurate Dispenser and obliging Counterman, with knowledge of Photographic trade; two assistants kept.

LONDON, S.W.—Unqualified Assistant required as Junior; good Dispensing experience essential. Apply, giving references, etc., to W. W. Brunton & Co., 240 Earl's Court Road, S.W.

LONDON, S.W.—Wanted at once, for about six weeks, a smart Junior Assistant; outdoors; not over 23 years of age; one requiring time for study entertained. Mason, Chemist, Acre Lane, Brixton, S.W.

LONDON, S.W. — Wanted, a qualified Manager; married, to live on premises; working-class district. Please send full particulars and salary required to 169/6, Office of this Paper.

LONDON, S.W.—Unqualified Assistant, about 25 years, with good Dispensing, Counter, and Photographic experience, or would entertain temporary. State full particulars, when disengaged, salary required (outdoors), A. T. Gray, 5 High Street, Barnes.

LONDON, W.—John F. Harrington, 15 Kensington High Street, requires a Junior Assistant. Apply, stating full particulars, together with age, height, and salary required (outdoors), also when disengaged, enclosing photo (to be returned).

LONDON, W.—Wanted, a Junior qualified Assistant with good Dispensing experience. Apply, stating age, experience, and giving references, to Squire & Sons, Ltd., 413 Oxford Street, W.

LONDON Suburb.—Junior Assistant (outdoors) for good-class Retail, Dispensing, and Photographic; good opportunity. State age, height, experience, when disengaged, and salary expected to Matthews, Chemist, Alderman's Hill, Palmer's Green, N.

MANCHESTER.—Junior or Improver (outdoors) required for a good-class Retail, with knowledge of Photography; time and assistance given to study if required. Apply, with usual particulars, J. E. Fletcher, Pharmaceutical Chemist, Sedgley Park Pharmacy, Prestwich, Manchester.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitableness.

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

MANCHESTER.—Qualified Assistant for Branch wanted. Apply to S. Gill & Son, Pharmacists, 57 Broad Street, Pendleton.

MANCHESTER.—Locum wanted for four weeks from July 19 or 26; Junior preferred. State wage and references in first letter, "Manchester" (168/8), Office of this Paper.

MANCHESTER.—Wanted, a competent Assistant. Salary and usual particulars to 167/8, Office of this Paper.

MANCHESTER District.—Qualified Manager single, outdoors, about 24, also smart Junior (outdoors), required for good-class Retail and Dispensing business; must have had good Counter experience in each case. Address, stating age, height, references, salary, etc., and enclosing photo (to be returned), to T. Woodruff, Ellesmere, Dialstone Lane, Stockport.

NEWQUAY (Cornwall).—Unqualified Assistant until end of October; Dispensing and Photography; outdoors; half-holiday weekly; fare paid one way. Apply, full particulars in first letter, and state salary, J. McFadzean, Central Pharmacy.

OXFORD.—Qualified Assistant wanted for good-class Light Retail and Dispensing Branch business; an exceptionally comfortable indoor berth. State salary required and usual particulars to J. Burbank, 116 Walton Street, Oxford.

PENZANCE.—Smart unqualified Assistant for good-class Retail; knowledge of Photography essential; easy hours. Please give full particulars as to age, height, experience, salary required, and if married or single, H. H. Cannon, Pharmacist, Penzance.

PLYMOUTH.—At once, an Assistant and a Junior, both used to a first-class business. Apply, stating salary required, age, height, experience, etc., with photo if possible, Balkwill & Co., 106 Old Town Street, Plymouth.

PORTH, Glam.—An unqualified Assistant, of good experience; outdoors; no Sunday duty. State age, experience, salary required, and when disengaged to T. Davies, Porth, Glam.

ROMSEY.—A Junior Assistant required for Family and Dispensing business. Kindly state usual particulars to Oram's Drug Co., Market Place, Romsey, Hampshire.

STRATFORD-ON-AVON. — Wanted immediately, a qualified Assistant, age about 30; outdoors; one used to a Country business; Light Retail and Agricultural; no heavy or dirty work; very easy and comfortable berth; easy hours; good salary to suitable man. Send full particulars in first letter and enclose photo, Loggin, Chemist, Stratford-on-Avon.

TUNBRIDGE WELLS.—Required immediately, qualified Assistant, accustomed to good-class Dispensing business. State full particulars of experience and salary required, to R. Howard & Son, Pharmaceutical Chemists, 81 Calverley Road.

WOLVERHAMPTON AND STAFFORDSHIRE GENERAL HOSPITAL.—Wanted, male Assistant Dispenser; Minor qualification; salary £100 per annum, luncheon provided; hours 9 a.m. to 5 p.m. Applications, with recent testimonials and full particulars, to W. H. Harper, House Governor and Secretary, General Hospital, Wolverhampton.

WORCESTER.—Competent Dispenser required; also Junior. State age, height, experience, references, and salary required to Anderson & Virgo, Chemists, Worcester.

YORKS.—Wanted, Assistant, unqualified, married, to live on the premises; must be steady and reliable and good Counterman; used to a country business preferred; good house, with every convenience; permanency for a smart man. Apply, stating age, experience, etc., to Leeming, Chemist, Guisborough, Yorks.

YORKSHIRE.—Unqualified man required for Holiday Relief in the West Riding; must be a capable man and be able to produce undeniable references. "Locum" (167/35), Office of this Paper.

A MIDDLE-AGED or elderly registered Chemist required as Superintendent; easy berth and hours; permanency. State salary, Evans, 54 Clare Road, Cardiff.

A QUALIFIED Assistant, age 21 to 26, required late in August; outdoors. Full particulars and salary required to Blake, Sandford & Blake, 49 Dover Street, Piccadilly, W.

A QUALIFIED Locum for four weeks in a London Retail and Dispensing business; indoors; assistance given. "Pharmacist" (164/2), Office of this Paper.

AN Assistant or capable Junior for good-class Dispensing and Retail (outdoors) from now to the middle or end of September. State age, salary, and give references, 167/17, Office of this Paper.

ASSISTANT at once, well up in Dispensing; either qualified or not. State which, salary required, when disengaged, names two last employers, 166/38, Office of this Paper.

ASSISTANT wanted for Dispensing and Counter; one with a taste for Window-dressing preferred; salary and commission (minimum) 45s. weekly. Please state age, references, experience, and when disengaged to "Chemist" (165/32), Office of this Paper.

ASSISTANT, studying for exam.; half-day's work, half-day's study at seaside, till about middle of September. 166/380, Office of this Paper.

ASSISTANT required for Holiday duty for month of August from 4th onwards; outdoors; light duties. State salary required, enclose photo (which will be returned), H. J. Aubrey, The Cross, Worcester.

ASSISTANT or good Junior, about August 6, for good-class business; easy hours. Give full particulars and references and state salary required, A. G. Reid, Petersfield, Hants.

ASSISTANT (unqualified) required for good-class Retail, Dispensing, and Photography; age 30-35; outdoors; hours—open 8.45, close Monday, Tuesday 7.30, Wednesday 1, Thursday, Friday 8, Saturday 10; no Sunday duty. Please state age, height, experience, addresses of last and present employers, salary required, enclosing photograph, to Hicks & Co., Chemists, Cardiff.

ASSISTANT (indoors), with a little knowledge of Photography, for a good-class business; close 7.30 p.m., Thursdays 1 p.m., Saturdays 9.30 p.m. Apply, stating age, height, experience, salary required, and enclose photo, to W. H. Jones, Pharmaceutical Chemist, Malvern.

ASSISTANT, capable of taking charge, required early in August for a fortnight; good references necessary. Wyatt, Broadway, Barnes, S.W.

CAPABLE Assistant (single, outdoors) in good-class Dispensing and Retail. Apply, giving full particulars of age, height, experience, references, salary required, and enclose photo, to W. A. Bell, Chemist, Southsea.

COMPETENT Assistant, about 25. Apply, W. F. Pasmore, 320 Regent Street.

CHEMISTS.—Smart, young qualified men, accustomed to quick Cash trade, required for Branches in the North of England. Please state salary required, references, experience, and when disengaged, "Chemist," Taylors' Drug Co., Ltd., P.O. Box 141, Leeds.

EVENING Assistant, qualified preferred, required for second and third weeks in August from about 7 p.m. to 10 p.m.; good salary for reliable man. Bennett, 94 Richmond Road, Barnsbury, N.

DISPENSER required from August 10 to 29 inclusive at the Park Hospital for Children, Hither Green, S.E. (under the Metropolitan Asylums Board); salary at the rate of £120 per annum. Apply to Medical Superintendent, by letter, stating qualifications. (The Assistants' certificate of the Society of Apothecaries is not a sufficient qualification.) July 8, 1914.

DISPENSERS.—A number of women Dispensers are required temporarily in connection with the pricing and examination of Chemists' Prescriptions. Applications, on foolscap paper, in the applicants' own handwriting, should state qualifications, experience, and age, and be accompanied by copies of not more than three testimonials, and forwarded addressed, 259/52, Office of this Paper.

DRUGS.—Assistants and Country-order Assistants required at once, for Sale. Apply, before 6 o'clock and up to 12 o'clock Saturday, to Staff Superintendent, Harrods, Ltd., 44 Hans Crescent, S.W.

FRANK A. ROGERS, 327 Oxford Street, London, W., will have a vacancy shortly for a qualified Assistant; outdoors. Please give full particulars of experience, etc.

GOOD unqualified Assistant, well up in Dispensing, required; commencing salary £130 per annum; outdoors; no Sunday duty. Apply, 168/4, Office of this Paper.

I CAN offer a capable Assistant, used to Light Retail and Dispensing, a comfortable outdoor situation, with very short hours and light work; excellent facilities for attending School of Pharmacy or University classes. Please enclose photo and usual particulars, E. Whitehurch, Chemist, 50 Goldsmith Street, Nottingham.

IMMEDIATELY.—Junior or unqualified Assistant; Retail and Dispensing; outdoors; permanent if suitable. Particulars, salary, references, to J. Cooper, Kingston Cross Pharmacy Stores, Portsmouth.

IMMEDIATELY. — Dispenser (Hall qualification) for shop; previous shop experience an advantage, but not essential. "Walthamstow" (166/1), Office of this Paper.

INDOORS.—Assistant (qualified) for good-class Dispensing and Family trade; must be a neat and careful Dispenser and have a knowledge of Photography; duty divided between three. State age, height, photo, experience, salary expected, and reference to "F." (167/40), Office of this Paper.

IMMEDIATELY.—Smart unqualified, about 22-24; Photography; references must bear strictest investigation; salary generous and hours moderate; first-class Dispensing experience; outdoors; also qualified Locum from August 7 to September 5; outdoors first fortnight, indoors later. Apply, Atkins, 71 East Hill, Wandsworth, S.W.

JUNIOR Assistant wanted for Dispensing business; outdoors. State when disengaged, salary required, and references to Duke, Maybury Pharmacy, 138 High Road, Willesden Green, N.W.

JUNIOR wanted; knowledge of Photography; in- or out-doors; usual hours and half-holiday. Colston, Pharmacist, Malvern Wells.

JUNIOR Assistant or Improver. Apply, with full particulars, to C. O. Wain, Chemist, Haslingden.

JUNIOR Assistant required for two months. State age, height, experience, references, and salary required (outdoors), Duck & Son, Chemists, Cardiff.

JUNIOR, unqualified (indoors), for Light Retail and Dispensing Business; time allowed for study. Apply, with full particulars, to S. W. Dawson, 56 Knight's Hill, West Norwood, S.E.

JUNIOR wanted for stockkeeping and to assist in best-class Dispensing business; no Panel work; indoors; two kept. Apply, Cooper, c/o Henry Jackson & Sons, School Lane, Liverpool.

JUNIOR Assistant wanted to help during holidays, about two months, or may be permanency; best-class business; outdoors. Jeffries, Chemist, Guildford.

JUNIOR or Improver at once for South Coast seaside town; Retail and Photographic; half-holiday; outdoors or indoors. State salary required and usual particulars to "Statim" (168/5), Office of this Paper.

JUNIOR, about 20, wanted the end of August for Light Retail and Dispensing. Apply, with full particulars as to age, experience, salary required, and references, to "Drugs" (24/9), Office of this Paper.

JUNIOR Assistant required (outdoors) for a high-class Dispensing business; must have served a regular apprenticeship and passed Preliminary; an excellent opportunity for a man reading for the Minor. Apply, giving full particulars as to height, age, experience, etc., enclosing photo (any time before September 1), to "D." (166/30), Office of this Paper.

JUNIOR Assistant (indoors), about 21. Apply, R. L. Whigham, 22 Brook Street, W.

JUNIOR Assistant (outdoors) for good-class Retail, Dispensing, and Photographic; good opportunity. State age, height, experience, when disengaged, and salary expected to Matthews, Chemists, 146 Hoppers Road, Winchmore Hill, N.

LOCUM, unqualified, required for one month from July 26, or a fortnight from this date and another fortnight later; no Sunday duty. Jordan Bros., Pharmacists, High Street, Grays, Essex.

LOCUM required for month of August. Apply, 165/36, Office of this Paper.

LOCUM-TENENS wanted, qualified, also a Junior, 19-21, from July 25 to August 8. Please send full particulars, age, height, references, salary, photos if possible, Purvis, Ph.C., Bridlington.

MARRIED Assistant to live over shop; qualification not essential; comfortable berth to a gentleman requiring permanency. Photo and full particulars, Walwin, Chemist, Gloucester.

MASON & CO., LTD., of 80 King Street, South Shields, require immediately a smart qualified Assistant; must be good Counterman; apply, with references, etc.; no Sunday duty; weekly half-holiday.

OUTDOORS (August 1).—Comfortable berth for gentleman, 22 or 23 years old; qualified preferred; time daily for recreation; liberal salary to suitable man; references given and required. Apply, with usual particulars, to Chas. Rundle, Pharmacist, 220 High Street, Walthamstow, N.E.

PART-TIME.—Assistant wanted for Dispensing, two nights a week, Friday 6-9, Saturday 6-10 o'clock. Apply, giving particulars and salary required, to H. A. Irwin, 2 Station Parade, Ealing Common, W.

QUALIFIED, for Management of newly opened Branch in pleasant industrial neighbourhood, rapidly developing, near Cardiff; comfortable progressive berth, with good salary, to reliable man. Please give general particulars, with photo if possible and two last berths for references, Clarke, Chemist, New Tredegar, Mon. Comfortable house accommodation for married man.

QUALIFIED, age about 25, to take charge of Branch; abstainer; reliable; single preferred; suit one recently qualified; fair wage and commission; middle-class business; no Thursday night duty. Apply in first place, 181 Whitham Road, Sheffield.

QUALIFIED man wanted for good-class Retail and Dispensing business. Give full particulars, including age, experience, references, and salary required, E. Stabler, 71 Wilmslow Road, Didsbury.

QUALIFIED Manager wanted for high-class Dispensing and Light Retail business; permanency for capable man. Give full particulars, including age, experience, references, photo, and salary required, to Barkers, Dispensing Chemists, Grimsby.

QUALIFIED Branch Manager for good-class business; good prospects for reliable man. T. A. Harrison, Pharmaceutical Chemist, Goodmayes, Ilford.

QUALIFIED Chemist wanted; good business man. State age, height, salary required (outdoors), send photo (to be returned), Hoit & Co., 26a Elm Grove, Southsea, Hants.

QUALIFIED Assistant, young or elderly; hours 9 to 8 p.m., 11 p.m. Saturdays; half-holiday weekly; healthy town and modern shop; duties very light; for elderly gentleman hours easy, which could be arranged. Salary and particulars to E. Watson, 3 High Street, Cleator Moor, Cumberland.

QUALIFIED Manager (Branch) required for permanent position in London; must be quick and accurate Dispenser and willing to adapt himself to Store methods of trading; good salary to a worker. Apply, with full particulars, to J. E. Houseman, Legbourne House, Manor Gardens, Romford.

QUALIFIED Manager wanted for a small Branch, Dispensing and Light Retail; suit man 60 or over. Usual particulars to J. Eades, Tipton, Staffs.

QUALIFIED Assistant wanted for good-class Dispensing business. Apply, with full particulars, and enclose photo, to A. E. Coverdale, Pharmaceutical Chemist, Worcester.

QUALIFIED Director; salary £200 and commission; splendid opportunity for energetic, capable man with Store and Branch experience; must take a moderate pecuniary interest in established concern. Address, giving full particulars and dates of recent engagements, references, etc., 168/26, Office of this Paper.

QUALIFIED Assistant, middle-aged, required to fill in Part-time, three or four days a week, from 1 p.m. Apply, by letter only, giving full particulars and salary required, "P. H. B.," 397 Cambridge Road, N.E.

QUALIFIED Dispenser required for West-End London; no Sunday or night duty; commencing salary £3 week. Apply, 168/04, Office of this Paper.

RELIABLE and trustworthy active qualified man required for permanency; average class business, with N.H.I.; hours 9 to 9, Wednesday 1, Saturday 10; alternate Sunday three hours; personal interview arranged. Age, salary, when disengaged, and references to Beale & Son, Chemists, S. Norwood, S.E. ('Phone, 310 Croydon).

SECOND hand wanted in a large business in West End; good experience and Minor qualification necessary; only young men need apply. Address all particulars to "Carboy," c/o S. Maw, Son & Sons, 7 Aldersgate Street, E.C.

UNQUALIFIED Assistant for permanency for Dispensing business. State age, height, salary, when disengaged, if married, 166/308, Office of this Paper.

UNQUALIFIED, competent Assistant, chiefly N.H.I. Dispensing. Strode, 88 Askew Road, W.

UNQUALIFIED Assistant, about 22 to 25, Part-time; every other day free till 6.30 p.m. for attending lectures. Apply, stating salary required (outdoors), to Gristock & Co., 1 Brandford Street, Manchester Square, W.

UNQUALIFIED Assistant; outdoors; must have had good Dispensing experience; three Assistants employed. Apply, with full particulars, to J. W. Webber, Pharm. Chemist, 202 High Road, Chiswick, W.

UNQUALIFIED. — Wanted well-educated, well-trained young Pharmacist to take up duties in an exceptionally high-class Pharmacy; hours particularly easy and opportunities plentiful. Applications, with photograph, to H. S. Shorthouse, 144 Edmund Street, Birmingham.

WANTED end of August, Junior Assistant (indoors), unqualified, for high-class Dispensing and Photographic business; no Insurance work. Apply, with full particulars, to Beetham & Clark, Cheltenham.

WANTED, a reliable Dispenser for four weeks commencing August 6; outdoors; no Sunday duty. Reply, stating terms required and enclosing two recent testimonials, to S. W. Joyce, 39 Fairfield Road, Winchester, Hants.

WANTED, about the middle of August, Junior or Improver for Retail and Dispensing. Apply, giving full particulars, salary (outdoors), enclosing photo, to R. T. Forbes, 48 Castle Street, Stockport.

WANTED, third Assistant, 21 to 22, for first-class West-End Dispensing business; outdoors. Reply, stating salary required, enclosing photo and giving height, to 169/13, Office of this Paper.

WANTED, Junior Assistant (outdoors), unqualified, for Light Retail and Dispensing business. Apply, stating age, height, salary required, when disengaged, and photo (to be returned), with references, to G. Henley, Chemist, Lyme Regis, Dorset.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box number being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

ASSISTANT for Wholesale, with experience of Wholesale Patent Medicine house; good writer and invoicer. Apply, stating salary required and full particulars of experience, Schacht, Warner & Co., 55 Fore Street, E.C.

DISPATCH and Checking Clerk, accustomed to supervising and used to Railway and Dock work, wanted for Wholesale and Export Druggists, London; previous experience necessary; wages £30s. to 35s.; progressive position. State full particulars, age, etc., to 168/18, Office of this Paper.

MEDICINAL Capsules.—Experienced hands required for hand- and machine-made work. 25/450, Office of this Paper.

PASTILLES, Lozenges, etc.—A London firm of Manufacturers have vacancies for Travellers of experience for Northumberland, Durham, and Scotland. 25/45, Office of this Paper.

PILL Maker, good all-round hand, wanted. Write, full particulars of age, experience, and wage required, to "P." (165/38), Office of this Paper.

REPRESENTATIVE wanted at once by German Manufacturers of Surgical Instruments; only Wholesale. 22/56, Office of this Paper.

REQUIRED, in the neighbourhood of London, a qualified Chemist; must have had practical experience in Analysing Petroleum Products. Write, giving full particulars as to age, experience, salary required, etc., to "L. O. N.," c/o Deacon's, Leadenhall Street, London, E.C.

THE Proprietors of "The Chemist and Druggist" require the services of a Representative in the Advertisement Department of the paper in London; candidates must have had experience in soliciting business by personal canvass, and knowledge of advertising useful, but not essential; age between 25-35. Reply, sending testimonials (copies, not originals, and no photographs), together with full particulars, to "O. R.," c/o Morgan Brothers, 42 Cannon Street, E.C.

TRAVELLERS with connection Provincial Chemists and Drysalters offered Sole District Agency for Proprietary line in Household Penny Fast Dyes; liberal commission. State age, firms now represented, ground covered, and full particulars (in confidence) to 162/17, Office of this Paper.

TRAVELLERS on commission wanted for Devon and Cornwall, Somerset, Wilts, and Gloucester, Hants and Dorset, Kent, Surrey, and Sussex, Midlands, Norfolk and Suffolk, Lincoln, Yorkshire, Lancashire and Cheshire, Northumberland and Durham, calling on Grocers, Bakers, Confectioners, etc., to sell Tea, Cocoa, Jams, and Confectionery; existing connections; liberal commission. Apply by letter, stating age, commissions now held, to the Home & Colonial Stores, Ltd., Travellers' Department, 60 Worship Street, London E.C.

TRAVELLERS calling on Toilet Soap, Perfume and Confectionery Manufacturers in the United Kingdom required to take up an interesting side-line on commission. 26/20, Office of this Paper.

WANTED, Representative in London for Wholesale trade in foreign Glass Bottles; salary and commission about £150 per annum. State qualifications, experience, etc., to Box E. 715, c/o Express Publicity Co., Egypt House, New Broad Street, E.C.

WANTED, smart Representative, London and Suburbs, for Brushes, Combs, Sponges, etc.; one with connection preferred; permanency if suitable. Apply, by letter, Brett & Co., 281 Beresford Street, Camberwell, S.E.

WANTED immediately, a young man as Stockkeeper; must be energetic and well up in all branches of Chemist's Packed Goods, etc. Apply by letter, giving full particulars of previous experience, salary required, etc., to "G. F." (25/7), Office of this Paper.

WET Counter.—Junior wanted by Wholesale Druggists, South London. Write particulars of experience, age, wages, to 26/27, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

BOMBAY.—Qualified Assistant wanted for a first-class private British firm of Chemists; age not over 30; three years' agreement; salary £200 first year, £220 second year, £240 third year; passage paid out and home by P. & O. steamship. Apply, with copies of testimonials and photo, to "R. L.," S. Maw, Son & Sons, 7/12 Aldersgate Street, London, E.C.

CHINA.—A thoroughly competent Assistant, with Minor qualification; age not over 30; must have had good experience in first-class Retail business; also reliable Drug Warehouse Clerk, with not less than five years' experience in Pricing and Invoicing and in keeping Stockbooks for Wholesale house; good salary for the right men; passage paid out and home; 4 or 5 years' agreement. Address, "China" (166/22), Office of this Paper.

PARIS.—Assistant, qualified preferred; good Dispenser. Age, height, references, etc., to "Continental" (25/22), Office of this Paper.

AN English qualified Assistant Chemist wanted, knowing International Pharmacopœia, speaking and understanding Italian; permanent appointment. Write, stating age, salary required, to the Anglo-American Supply Stores, Ltd., Via Cavour, Florence, Italy.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

[HOME.] RETAIL.

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WILL the Advertiser 163/24, whose announcement appears among the following, kindly send his address to the Publisher in order that any replies received may be forwarded?

A SMART business man, aged 35, experienced Manager, qualified, married, desires to communicate with a gentleman wishing to gradually retire. 163/24, Office of this Paper.

AS Manager to a good-class business; disengaged; highest references. Apply, 165/28, Office of this Paper.

Young Chemist (Dr. Phil.)
with special knowledge of Inorganic and Physical Chemistry, (Nernst scholar) wants suitable post

(KNOWLEDGE OF ENGLISH)

Replies to: P3089
c/o HAASENSTEIN & VOGLER A.-G., VIENNA I.

ASSISTANT, Manager, Locum; 34; single; best experience; Salesman, Window-dressing, Dispensing; salary £2 (outdoors). "Brighton" (164/34), Office of this Paper.

ASSISTANT, unqualified; Counter, Window-dressing, and Dispensing; City or Suburbs (S.W.). 167/11, Office of this Paper.

COMPETENT, reliable, qualified Locum: disengaged August 1 till 25, September 2 till 6, and after September 27. "J.," 34 Villiers Street, Strand, W.C. 'Phone: Gerrard 800.

DENTAL-CHEMIST'S Assistant; own tools; most varied best experience; abstainer; gentlemanly; push, tact; M.A. Cantab.; in, near London. "Dentist," 24 Connaught Avenue, Frinton-on-Sea.

DENTISTRY, Pharmacy, Optics, etc.; Physician's Surgery, Prescribing experience; single-handed management; non-reg. 167/39, Office of this Paper.

DISENGAGED 15th; Manager, Locum; 36; good references. "Chemicus," 12 Pentonville, Newport, Mon.

DISENGAGED; good Counterman, Dispenser, and Window-dresser, also Photography: "Thomas," 17 Russell Road, Leyton.

DISPENSER-BOOKKEEPER (woman, qualified) to Doctors; Panel work; over 4 years' London reference; interview London. "R. H.," 11 St. John's Avenue, Colchester.

EVENING employment required by qualified Chemist from 6 p.m. "Watson" (169/5), Office of this Paper.

F.S.M.C. (lady) open for few weeks' Locum, high-class business, holiday resort; slight knowledge of Chemist's business. Howell's Pharmacy, Gwaun-cae-Gurwen, Glam.

GERMAN Druggist, 23, little English, desires any kind of situation in London. Please write to Sachs, 22 Tenison Street, Waterloo Road, S.E.

IF you want a good all-round unqualified Assistant, Optics (outdoors), reasonable hours, state salary, 28 Stratford Road, Thornton Heath.

JUNIOR and Manufacture disengaged. Full particulars, Hinton, 9 Elms, Lompton Road, Hounslow.

JUNIOR; age 20; Photography; disengaged. Hallett, 6 Gladys Street, Cathays, Cardiff.

LADY Dispenser (Hall) requires post or Locum work in or near Reigate. Apply, "N. K.," Hillside Cottage, Uplands, Loughton.

LEEDS District.—Unqualified; 27; London and seaside experience Dispensing and Photography: married. "Yorks" (164/27), Office of this Paper.

LOCUM; 30; qualified; excellent experience Photography, Insurance; vacant July 27 till August 2. "Chemist," 155 Engelheart Road, Catford.

LOCUM or otherwise; disengaged; experienced, steady, and reliable. "D.," 82 Marlborough Road, Romford.

LOCUM, or seaside; unqualified; competent; N.H.I. qualification. 28 Stratford Road, Thornton Heath.

LOCUM; disengaged August 17; experienced. Dodsley, Pharmacist, 47 Shrewsbury Road, Birkenhead.

LOCUM; 43; qualified; disengaged; no single-handed; used to management. Rogerson, Cunliffe Terrace, Bradford.

LOCUM; disengaged until August 3; experienced; good references. "Pharmacist," 5 Balcombe Road, Horley, Surrey.

LOCUM; unqualified; disengaged August 10 to 22. "Juvenis," 44 Beresford Road, Reading.

LOCUM, qualified, 20 years' good-class experience, has vacant dates immediately and September 8 or 9. "Aspirin," 29 Avondale Road, Southport, Lancs.

LOCUM; 32; free from 17th till 30th July; good all-round experience; terms moderate. "W. D." (169/8), Office of this Paper.

LOCUM; Dispenser; unqualified; middle-age; moderate; London or Suburbs. "Experienced," 94 Edward Street, New Cross.

LOCUM; unqualified; disengaged until 25th; London preferred. "Locum," 29 Hetherington Road, Clapham, S.W.

LOCUM; 35; unqualified; disengaged till 25th. Dewar, 51 Elystan Street, Chelsea, S.W.

LOCUM; qualified; disengaged; 37; good Dispensing experience. "Chemist," 54 Bell Street, N.W.

LONDON.—Unqualified; good Dispenser and Counterman; 33; permanency preferred; best references; experienced. "Northern" (166/31), Office of this Paper.

LONDON or Seaside.—Unqualified; 28; expert Dispenser; good-class business; manage when necessary; City preferred; salary 47*s.* 6*d.* Full particulars, "Thorium," 32 Cambridge Avenue, Kilburn.

M.P.S. (young) requires position in Midlands or North; excellent London and Provincial experience Counter, Dispensing, Optics. Apply, "H. C." (168/13), Office of this Paper.

MANAGER (Drug Store), Branch; at present similarly engaged (London); experienced Prescriber, etc.; 36; married; Hall qualification; satisfactory reason for change; reference from present employer. Address, "Experienced" (167/15), Office of this Paper.

MANAGER; 44; married; experienced; good all-round man; reliable; Locum or permanency, or gradual easy succession entertained; disengaged after July 11; unregistered. Address, "Statim" (169/35), Office of this Paper.

MEDICAL Student, reading for Final, desires post with Doctor; thoroughly experienced; highest references. "M." (167/26), Office of this Paper.

PHARMACEUTICAL Chemist, age 38, active, of medium height, experience all branches of the business, desires Managership for private Chemist; present position five years; London or Essex preferred. "Ouvrier" (170/1), Office of this Paper.

PHARMACIST (lady) requires post with Doctor or Institution; experienced. 166/36, Office of this Paper.

QUALIFIED; 23; good-class Dispensing and Retail; outdoors; seaside, South or East Coast. Ling, "Brook House," St. Margaret's, Bungay, Suffolk.

QUALIFIED; 35; tall; married; Counter, Dispensing; disengaged. Stewart, 16a Highgate Road, N.W.

QUALIFIED Manager; 40; Locum or permanency; good experience and references. "Pharmacist," 3 Wood Lane, W.

QUALIFIED; 30; Assistant, Dispensing and Counter; or Branch Manager (small), view succession; London preferred. "Zingib." (168/23), Office of this Paper.

QUALIFIED open for Locum engagement from September 9 to 23 inclusive; good all-round experience; Coast preferred. "Scotsman" (169/40), Office of this Paper.

QUALIFIED Manager; 39; outdoors; disengaged; London; permanency or Locum. Evans, 8 The Quadrant, Wembley.

THREE years ago my salary was 50s. a week; now it is 95s., with offer of 100s. to stay; capital in hand if required; 28; tall; what offers? Apply, "Qualified" (24/18), Office of this Paper.

UNQUALIFIED Assistant; 23; smart appearance; 7 years' high-class experience; good Counterman and accurate Dispenser; South Coast. "Aspirin," 77 Marine Parade, Worthing.

UNQUALIFIED Assistant (Student) seeks situation for six weeks, while Colleges are closed; country or seaside preferred; speaks English, Dutch, German fluently. Reply, 163/35, Office of this Paper.

UNQUALIFIED Assistant, 27, quick and obliging, expert Salesman and Window-dresser, good Dispenser and Prescriber, high-class Retail, Veterinary, and Photo experience, highest references, desires permanency end of August; high wages. Address, "Worker" (164/18), Office of this Paper.

UNQUALIFIED; 22; quick, accurate Dispenser, smart Counterman, attractive Window-dresser; 6 years present good-class situation; tall, gentlemanly; disengaged August 23. "Rhei Opt." (162/20), Office of this Paper.

UNQUALIFIED; disengaged; sound, varied experience, up to date. "Salesman," 146 Philip Street, Newcastle-on-Tyne.

UNQUALIFIED; 25; 10 years' experience; would accept Locum; excellent references. "H. N." (169/24), Office of this Paper.

UNQUALIFIED, 22, 5 years' experience, including 9 months' College training, requires situation. 169/12, Office of this Paper.

WELL-RECOMMENDED, thoroughly competent Assistant; West-End Dispensing experience, N.H.I., also Pricing; 49; Prescriber; London or country. 169/34, Office of this Paper.

YOUNG man, studying for Minor, requires part- or whole-time berth, short hours, in good West-End Dispensing business or near Colleges; London, provincial experience. Irving, Y.M.C.A. Central, W.C.

WHOLESALE.

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CHEMIST'S Assistant (28), 12 years' Retail experience, desires position with reliable Wholesale house as Traveller. "Energetic," Dunrobin, 22 Longley Road, Tooting, S.W.

CERTIFIED Swiss Druggist, 6 years' experience, French and German knowledge, seeks engagement in office or shop. P. Zimmermann, 28 Highbury New Park, Highbury.

EXPERIENCED Chemist requires position as Manager of the Toilet and Perfumery Department of a Wholesale business; over 10 years' experience in manufacturing, producing, and initiating selling lines in Toilet and Perfumery goods; good organiser and economical worker; knows the Packed Goods trade from A to Z; salary required £208 per annum and commission. "Stewart" (169/50), Office of this Paper.

EXPORT.—Gentleman seeks position as Representative for Wholesale house for South America; knowledge of markets; speaks Spanish. Address, "Representante" (167/12), Office of this Paper.

FRENCH Chemist, 24 years old, who has specialised as Food Analyst and Bacteriologist, wishes to spend three months in England in order to learn the language; desires to be employed in the Factory of a Preserve or Chemical Manufacturer or in a large Chemist's or Druggist's Stores; au pair, or would pay a small fee. Address, "F. S.," c/o Davies & Co., Advertising Agents, Finch Lane, Cornhill, E.C.

IRISH Traveller, extensive and most satisfactory connection with Chemists and Druggists, experienced, open to Represent Manufacturing house on this ground; best references. Reply, 166/190, Office of this Paper.

MEDICAL Lozenge Maker seeks employment; competent to teach girls and manage. 166/29, Office of this Paper.

ORGANIC and Pharmaceutical Chemist, D.Sc., Swiss (26), accustomed to Research work, theoretical knowledge, practical experience, a few new medicinal substances synthesised and patented, new ideas, seeks situation in Factory; one with advancing prospects preferred; first-class testimonials and references; speaks French, German, and English fluently. "Synthesis," Flat 7, 22 Union Street, London, W.

PACKER, 12 years' experience, seeks situation; excellent reference. "G. T.," 31 Manaton Road, Peckham Rye, S.E.

SWISS Druggist, age 23, having five years' good experience in Drugs, Chemicals, and Specialities, and speaking and writing French and German perfectly, seeks position, preferably in Wholesale house. Paul Hunziker, 11 Cambridge Road, Hammersmith, W.

TABLET Maker (all-round); 5 years' experience. A. Bryer, 46 Hill Street, Peckham, S.E.

TRAVELLER desires good firm; well known amongst Continental Surgical Instrument Makers and Sundriesmen; highest references. 164/1, Office of this Paper.

TRAVELLER or Representative.—Gentleman, with Travelling, Wholesale and Retail, experiences, desires engagement, Drugs or Sundries; connection South and West. 163/18, Office of this Paper.

YOUNG man (27), good all-round experience buying Sundries, Dressings, Surgicals, Patents, etc., managing Warehouse and Order Department, requires permanent situation with opportunity for energetic work. Apply, 165/39, Office of this Paper.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

1s. for **12** words or less; **6d.** for every **10** words beyond, prepaid. The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependencies or elsewhere abroad.

RELIABLE Assistant (23), good Dispensing, Retail, Optical, seeks place abroad; exemplary character; abstainer. "Savom" (163/21), Office of this Paper.

Wootton's "Chronicles of Pharmacy."

By arrangement with Messrs. Macmillan & Co., Ltd., we are able to offer this work (published by them at a guinea net) to "C. & D." Subscribers at 7s. 6d. carriage paid in the United Kingdom, and 8s. 6d. Abroad. The work is by the late A. C. WOOTTON (for many years Editor of "THE CHEMIST & DRUGGIST"), and is in two volumes, bound in maroon cloth. The twenty-four chapters deal with every phase of the history of chemical and galenical pharmacy from the earliest times, and include biographies and portraits of many noted men in medicine and pharmacy. The "Chronicles" tell about the origin of the more popular medicines and trace their development to official status. Most fascinating and readable to pharmacists, who are advised to secure a copy by ordering from

"THE CHEMIST & DRUGGIST," 42 CANNON STREET, LONDON, E.C.

MISCELLANEOUS.

McADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone 81 Lee Green.
Shares for Sale (free of commission, subject).—50 Barclay & Sons' Preference (12*s*. paid), 3*s*., or near offer; 50 Molassine Preference, 6*s*. 3*d*.; 40 Veno Drug, 19*s*. 10½*d*.; 35 A. J. White, 9*s*; 200 Bovril Deferred, 6*s*. 9*d*.; 100 International Sponge Ordinary, 5*s*. 6*d*.; 50 6 per cent. Preference, 11*s*. 3*d*.; 50 Idris "A" Ordinary, 2*s*. 6*d*.
Wanted (subject).—170 Wright Layman Preference, 21*s*.; 100 Parke's Drug Preference, 13*s*. 6*d*.; 30 Wilkie Soames' Preference, 105*s*. 6*d*. x.d.
List of Shares for *Sale* and *Wanted* sent free on application. Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

SHOPFITTINGS and Showcase.—Large quantity removed from Pharmacies being altered: 5-ft. Glass-fronted Counter, 70*s*.; 7-ft. Plate-glass Wall Case, £8; Silent Salesman Cases, 75*s*. upwards. Write requirements, PHILIP JOSEPHS & SONS, LTD., 93 Old Street, E.C.

BIG BARGAINS IN SECOND-HAND FITTINGS.—12-ft. Wall Fixture, Mahoganised Drawers, Lockers and Shelving, £11 10*s*.; Dispensing-screen for floor, 6 ft. high, £7; 6-ft. Bent-front Counter Case, £5; Silent Salesman for Counter, 75*s*.; ditto for floor, £7 10*s*.; 12 4-lb. Pink Jars, Gold-labelled, 42*s*.; 12 2-lb. ditto, 22*s*.; 120 Gold-labelled Shop Rounds, 92*s*. Write for particulars, R. TOMLINSON & SONS, Headquarters for Chemists' Fittings, Bond Street, Birmingham.

CHEMISTS' Fittings, Silent Salesman Showcases, Drugfittings, Dispensing-screens, Wall-cases, Perfume-cases, Desks, Glass-front Counters, Counter Drawers, Shop-soiled, Second-hand, at unbeaten prices; before you decide get my estimate, you can't do better; 30 years fitting Pharmacies. George Cook, the Chemists' working Shopfitter. New address: Catherine Street, City Road, E.C. (few doors from Old Street).

BEST cash price for all old Cameras, any make, also all old Photo goods, no matter how damaged; any kind you may have send them along; cash will be sent same day; no waiting; we buy all and return nothing. S. E. Hackett, 23 July Road, Liverpool, E.

£25 10*s*. will buy 12-ft. Drug Fitting (Glass Knobs and Labels), 11-ft. Mahogany-top Counter, 4-ft. 6-in. Wall Case, Dispensing Screen and Counter, Perfume Case and Desk; all sound and in good condition. Call or write, RUDDUCK & CO., 262 Old Street, E.C.

SECOND-HAND Fittings.—For Sale, cheap, 6-ft. and 7-ft. Dispensing Screens; 6-ft., 7-ft., 10-ft., and 12-ft. Wall Cases; 8-ft., 10-ft., and 12-ft. Glass-fronted Counters, full of Drawers; 4-ft., 5-ft., 6-ft., 8-ft., and 10-ft. Mahogany and Plate-glass Counters; Drug Fittings, all sizes; Silent Salesman; Cash Check Tills from 15*s*.; estimates for alterations by experts. FARLEY'S SHOP-FITTING WORKS, Show Rooms, 227 Old Street, E.C.

GOLDEN Opportunity.—Good as new; Chemist's handsome Drug Fitting, Solid Mahogany Counter, Mahogany Plate-glass Wall Case, Dispensing Screen, Plate-glass Counter Case, Shop-rounds and Jars, Window Enclosure, Glass Shelves, Carboys; the lot £65 10*s*.; absolute bargain. H. MILLS, the Chemists' Shopfitter, Shop-front Works, 163-5 Old Street, E.C. 'Phone: London Wall 550.

SODA-WATER Trolley, that makes heavy work light, and on which a boy of 8 can easily convey 3 dozen syphons; will go through any doorway; dozens in use in all parts of the country; carriage paid, 37*s*. Sole Makers, Arthur & Co., 9 K.P., Cambridge.

FACE THE QUESTION

OF THE SELLING POWER OF YOUR WINDOW.—DOES IT PAY?

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Send P.O. 1/10, Name of TWO PREPS. of 15 Words each, and secure TWO of our LATEST DISPLAYED CARDS, size 15 × 10 and 12 × 9½, sent CARR. PAID, and prove for yourselves THEIR SELLING POWER.

F. MERTEN & CO., 72 Marlborough Rd., HOLLOWAY, LONDON, N.

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One halfpenny per word with name and address. One penny per word if we register the address and attach a number.

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FOR DISPOSAL.

BOOKS AND PERIODICALS.

WITHERING'S "British Plants," Woodville's "Medical Botany," Stephenson and Churchill's "Botany," beautifully illustrated; what offers? Hasselby, Hastings.

PROPRIETARY ARTICLES.

TWO 5*s*. Kissengen and Vichy treatment; 6 boxes "B" bulbs; 3 Keating's worm lozenges; 2 Karox; 2 Lavona; one 1*s*. and 2*s*. 6*d*. Taft's Asthmalene. Best offers to Williams, Chemist, Corwen.

SHOP FITTINGS.

FOR sale, splendid fire-proof safe by Withers, West Bromwich, price £5 5*s*.; grand polished oak, roll-top desk, £6 10*s*.; returnable if carriage paid. Vaughan, 12 & 14 Leeds Bridge, Leeds.

MISCELLANEOUS.

MARBLE mortar; perfect condition; about 2 gals. capacity, 10*s*. Thomson, Chemist, Elgin.

12 GROSS 1*d*. herbs, 4*s*. gross; 40 lb. sheet gelatine, 8*d*. lb. Pratt, M.P.S., Cleckheaton.

WANTED.

LENS meter accurate, cheap. Williams, Chemist, Corwen.

EMPTY original olive-oil jars and half-jars. 164/36, Office of this Paper.

CHECK till required, smallest size. Full particulars, "Till" (167/28), Office of this Paper.

STUDENT'S microscope and slides, on approval. Hinde, 91 Scotch Street, Whitehaven, Cumberland.

SMALL milling plant wanted for toilet soap; good make. The Fram Mfg. Co., Ltd., Ellis Street, Birmingham.

OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, London, S.W.

MORE BUSINESS DONE

when you use my Window Centres. They can also be used in conjunction with your own advts. My Library scheme enables you to do full justice to your windows at the smallest cost. They save time in dressing, attract attention, and tell the story at a glance. Start now. Holiday Goods or Summer Beverages. Special terms to Continental Pharmacists. Repeat order sent to France last week. N.B.—Only one in a town supplied. Particulars free.

BILLYARD ALLISON, PHARMACIST, RETFORD.

THE CHEMISTS' FRIENDLY SOCIETY

Members' Insurance Books and new Contribution Cards, &c., were posted on 30th ult. Any member who has removed and who has not received same is requested to make inquiry at his previous address therefore, and notify the office of his present address at once.

The MANAGER, C.F.S. (C Dept)
194 St. Vincent Street, Glasgow.

COMING EVENTS.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Tuesday, July 14.

Proprietary Articles Trade Association, Salisbury Hotel, Salisbury Square, Fleet Street, London, E.C., at 3 P.M. Annual meeting.

Wednesday, July 15.

Society of Chemical Industry, University College, Nottingham, at 10.30 A.M. Annual meeting. Festivities and visits to works have been arranged for the other days of the week.

Ucal Lodge of Pharmacy, 54 Uxbridge Road (Conservative Association), Shepherd's Bush Station, London, W., at 3 P.M. Quarterly meeting.

Pharmaceutical Associations Conference, Holborn Restaurant, London, W.C., at 11 A.M., in the Throne Room.

Thursday, July 16.

Peterborough Association of Pharmacists. Visit to Parke, Davis & Co.'s works, Hounslow.

British Pharmaceutical Conference.—The Chester Conference will open on July 20 by a reception at the Town Hall. The business sessions will be held on July 21 and 22 at the Grosvenor Hotel, and there will be social functions each day. The whole-day excursion on July 23 will be to Llangollen. Applications for membership should be made at once to the Hon. General Secretaries, Messrs. Finnemore and Bennett, 17 Bloomsbury Square, London, W.C.

COLLEGE NOTES.

South of England College of Pharmacy.—At the examinations held at the end of the summer term the following awards were made: *Silver Medal*, for highest aggregate marks, Mr. H. Steggles. *Chemistry*, Bronze Medal, Mr. Colin A. Canham; Certificates, Mr. R. Boulton, Mr. A. A. Isaac, Mr. H. Steggles, Mr. L. Parrott, Mr. F. B. Wride. *Pharmacy*, Bronze Medal, Mr. H. Steggles; Certificates for Dispensing, Mr. R. Boulton, Mr. J. P. Trestrail, Mr. F. W. Callam, Mr. H. Steggles, Mr. L. Parrott, Mr. F. B. Wride; Certificates for Pharmacy (Theory), Mr. C. A. Canham, Mr. H. Steggles. *Botany*, Bronze Medal, Mr. H. Steggles; Certificates, Mr. C. A. Canham, Mr. F. B. Wride, Mr. H. Steggles. *Materia Medica*, Bronze Medal, Mr. H. Steggles; Certificates, Mr. F. Pountain, Mr. C. A. Canham, Mr. R. Boulton, Mr. R. T. Lorenz, Mr. H. Steggles. *The Malerve Barrett Prize* for general progress was awarded to Mr. L. Parrott, and the *Attenborough Prize* for dispensing was taken by Mr. F. B. Heathcote Wride.

London College of Pharmacy.—In the College examinations recently held the Silver Medal for general proficiency was awarded to F. S. Coates. *Chemistry.*—Bronze Medal, F. S. Coates; Certificates, A. C. Pearce, H. C. Stocks, E. Nickerson, R. P. White, F. M. Thomas, A. J. Harris, R. J. Smith, G. B. Purvis, W. M. Laxton, R. Cooper, T. E. B. Young, W. B. Geering, H. R. Evans, G. L. B. Williams, A. Doyle, B. Jones, E. R. Roberts, A. R. Donaldson. *Botany.*—Bronze Medal, A. J. Harris; Certificates, F. S. Coates, A. C. Pearce, G. B. Purvis, R. R. Skidmore, E. Nickerson, W. M. Laxton, A. Doyle, E. R. Roberts, B. Jones, R. P. White. *Materia Medica.*—Bronze Medal, A. J. Harris; Certificates, E. Nickerson, G. B. Purvis, W. B. Geering, F. S. Coates, B. Jones, A. Doyle, R. R. Skidmore, R. P. White, A. C. Pearce, T. E. B. Young, R. J. Smith, W. M. Laxton, E. R. Roberts, F. M. Thomas, R. Cooper. *Pharmacy.*—Bronze Medal, E. Nickerson; Certificates, F. S. Coates, A. J. Harris, A. R. Donaldson, G. B. Purvis, T. E. B. Young, R. P. White, H. S. Stocks, A. C. Pearce, A. Doyle, R. R. Skidmore, R. Cooper, B. Jones, F. M. Thomas, W. M. Laxton.

News from Egypt.

(By the "C. & D." Correspondent.)

New Pharmacies.—According to the "Egyptian Mail," the Public Health Department has authorised the opening of fourteen new pharmacies throughout Egypt as follows: Cairo (5), Heliopolis (2), Alexandria (1), Kafr el Sheikh (1), Deirut (1), Minia (1).

Women Pharmacists.—A sign of the growth of the emancipation among Egyptian women is the authorisation just granted by the Public Health Department to native women pharmacists to practise their profession. Two qualified ladies are opening pharmacies on their own account.

Dental Certificates.—A number of dentists in possession of certificates from Turkey have submitted petitions to the Ministry of the Interior complaining that the Public Health Department has refused to allow them to practise their profession in Egypt. It is stated that the Public Health Department has already allowed Greek dentists with unofficial certificates from their country to practise in Egypt.

Food and Drugs Act.—The Public Health authorities have recently prosecuted eighteen Alexandrian vendors of milk and comestibles. The sentences inflicted by the Court varied from imprisonment for fifteen days to one month and fines of 1*l.* to 4*l.* Fifteen of the cases were for bad and contaminated milk, the remaining three for inferior and falsified butter and oil. There is no direct pharmaceutical interest in this paragraph, but it serves to show how things are progressing in Egypt.

Sale of Cannabis Indica.—The Egyptian Press has recently begun a campaign against the use, or rather abuse, of cannabis indica. Hashish, the usual preparation of this drug used for smoking, has not so much been the cause of the recent outcry as the administration of the electuary form, which has within the last month been the cause of several deaths in the capital and the provinces. This composition of cannabis indica and honey, and sometimes a small admixture of opium, is taken in the form of pastille or sweetmeat, in some cases as the finish of a copious repast. Recently it has been employed for drugging provincials visiting Cairo, who have been robbed after being rendered unconscious. Natives have been found lying in the streets of Cairo in a dangerous condition of poisoning, and in some cases death has resulted. Maghoon, the name of the compound, is similar to that known in Morocco as Dawa-Kas.

The Village Barber of Egypt bears a certain resemblance, in so far as his profession goes, to the barber-surgeon of ancient times in England. He is authorised by law, after having passed an examination, to perform such operations as vaccination, cupping, and the like, but is forbidden by the same law to order or prescribe medicines. Every barber must attend a course of lectures of three weeks' duration at the Mudiria Government hospital and pass an examination for a certificate. In each village one of these barbers is appointed by the Public Health Department as its representative. This qualification, "Village Barber," as the name indicates, is distinctively that of the useful man in the more remote parts of the Delta and Upper Egypt, where a livelihood would not be obtainable by a qualified native medical practitioner. Still, even to-day in the poorer quarters of Cairo and Alexandria the barber adds to his tonsorial duties those of tooth-extractor and blood-letter, especially so in the part of Alexandria occupied by the labouring classes from Southern Europe; the Egyptian Figaro with this class of *clientèle* makes a window-display of defunct molars, and the cupping-basin is part of the shop furniture.

Sports.

Perth Pharmacy C.C. met Dalhousie C.C. at North Inch, Perth, on July 1. The latter were all out for 77 runs, and the Chemists scored 69 for seven wickets when the closure was applied owing to darkness.

The sixteenth annual sports of the employés of Messrs. Duncan, Flockhart & Co., Edinburgh, were held at Northfield on July 1. The various events were keenly contested, with the following results:

100 yards Handicap.—1, R. Condie; 2, A. Martin; 3, D. Veitch.

Married Men's Race (80 yards).—1, H. Good; 2, W. Knowles; 3, John Bald.

Boys' Race (100 yards).—1, J. Gilroy; 2, J. Anderson; 3, J. Knowles.

Tug-of-War.—1, "B" Team; 2, "C" Team.

Young Ladies' Race (16 years and under).—1, Miss Aitken; 2, Miss Shannen; 3, Miss Ross.

Young Ladies' Race (17 to 21 years).—1, Miss Mason; 2, Miss Hogg; 3, Miss Halliday.

Young Ladies' Race (21 years upwards).—1, Miss Young; 2, Miss Mason; 3, Miss Douglas.

Egg-and-Spoon Race (ladies).—1, Miss Ross; 2, Miss Turner; 3, Miss Kinnaird.

Three-legged Race.—1, J. Hacton and D. Veitch; 2, W. Knowles and D. Lindsay.

At the close of the programme Mrs. Inglis Clark presented the prizes to the successful competitors, and, on behalf of the employés, Miss Gibson handed a lovely bouquet of flowers to Mrs. Inglis Clark, who returned thanks in a neat speech.

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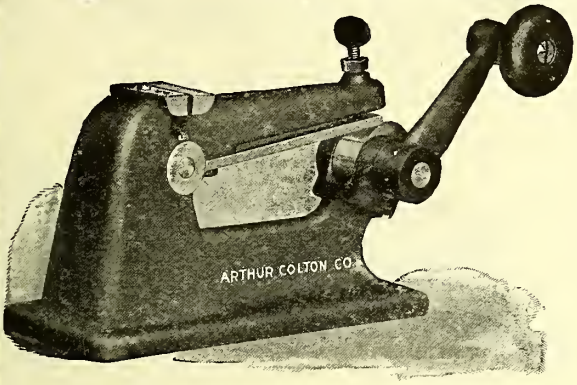

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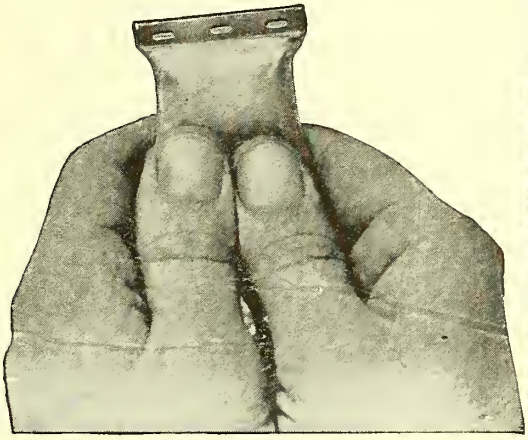

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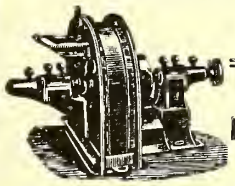

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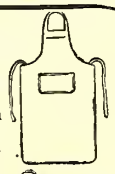

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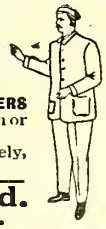

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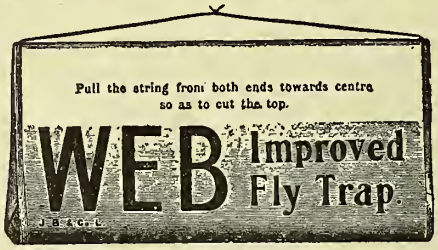

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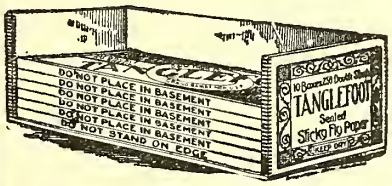

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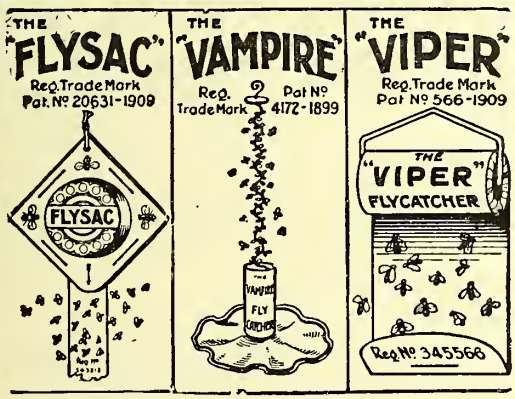

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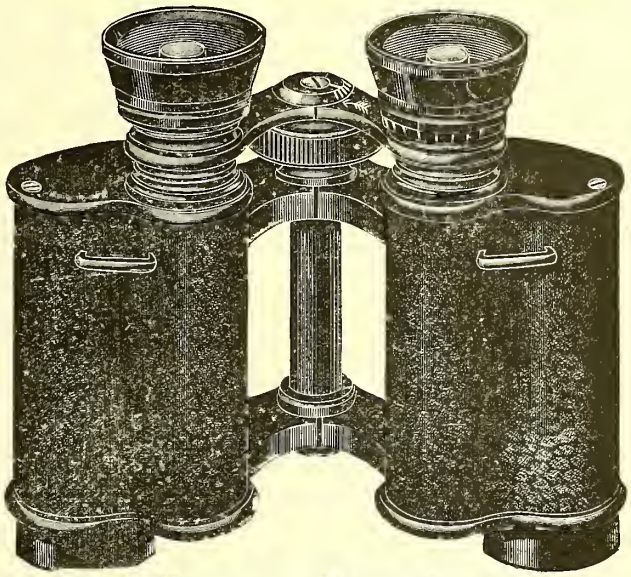

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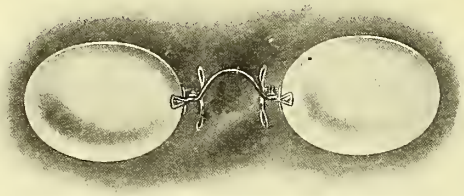

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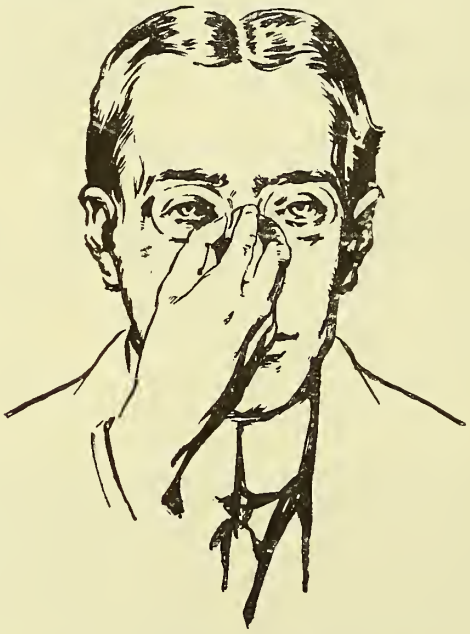

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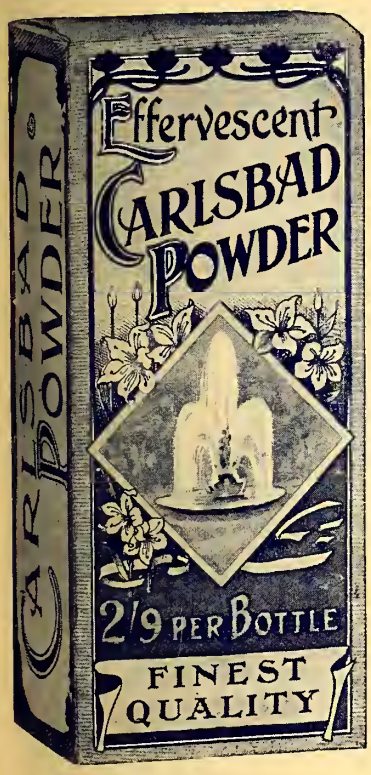

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